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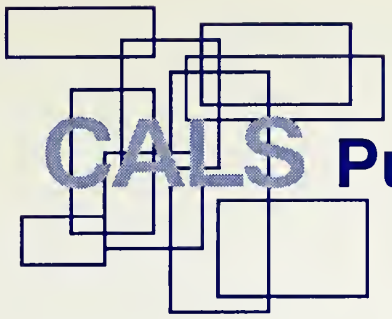

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- Continuous Acquisition and Life-Cycle Support Program (CALS)
- CALS Test Network (CTN) Reports
- CCITT Group 4 Raster Graphics Standard
- Computer Graphics Metafile (CGM)
- Contractor Integrated Technical Information Service (CITIS)
- Concurrent Engineering (CE)
- Electronic Data Interchange (EDI)
- Initial Graphics Exchange Specification (IGES)
- Product Data Exchange Specification Using STEP (PDES)
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CONTENTS

CALS Publications

1994 1

1993 1

1992 8

1991 17

1990 26

1989 34

1988 40

1987 43

1986 45

1985 and earlier 46

Index 49

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Case Western Reserve Univ., Cleveland, OH. Dept. of Electrical Engineering and Applied Physics.

Ruegsegger, S. M.

Jan 94 149p

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1993

Advanced Life Support Study. Modification 10 - ECLSS Logistical Support Analysis for Space Station Freedom Final Report

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RJO Enterprises, Inc., Dayton, OH.

20 Apr 93 166p

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Application Protocol for CAD to CAD Transfer of Electronic Information

National Aeronautics and Space Administration, Washington, DC; Naval Command, Control and Ocean Surveillance Center, San Diego, CA. RDT and E Div.

Azu, C. C.

Feb 93 10p

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(Order as N93-22149/

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Azu, C. C.

Mar 93 13p

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Automated Assembly Center (AAC) Abstract Only

National Aeronautics and Space Administration, Washington, DC; Air Force Systems Command. Washington, DC.

Stauffer, R. J.

Feb 93 538p

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Institute for Defense Analyses, Alexandria, VA; Institute for Defense Analyses, Alexandria, VA.

Alluisi, E. A.

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CALS Information Technology Briefing - CALS EXPO '91. Held in Phoenix, Arizona on November 12, 1991

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Department of Commerce, Washington, DC. Technology Administration.

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National Aeronautics and Space Administration, Cleveland, OH. Lewis Research Center.

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Benigni, D. R.

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Army Research Office, Research Triangle Park, NC; Minnesota Univ., Minneapolis. Dept. of Electrical Engineering.

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Canada Communication Group. Publishing, Ottawa (Ontario).

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Varnado, F.

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Naval Undersea Warfare Center Div., Neuport, RI.

Choinski, T. C.; DePrimo, J. G.

6 Aug 93 9p

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Air Force Inst. of Tech., Wright-Patterson AFB, OH.

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Allied-Signal Aerospace Co., Kansas City, MO. Kansas City Div.

Brown, C. W.

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Hypermedia Presentation Composer - A Tool for Automatic Hyperdocument Deiivery

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Hueser, C.; Haake, A.

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Knowledge Based Systems, Inc., College Station, TX.

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incorporating CALS Requirements into the CGM Standard and the CALS Appiication Profiie - MIL-D-28003 Rept. for Jan-Dec 91

Assistant Secretary of Defense (Production and Logistics), Washington, DC. Computer-aided Acquisition and Logistic Support Program; National Inst. of Standards and Technology (CSL), Gaithersburg, MD. Information Systems Engineering Div.

Benigni, D. R.

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Hueser, C.; Weber, A.

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Information Integration for Concurrent Engineering (IICE) IDEF3 Process Description Capture Method Report Interim Rept. Feb 91-Apr 92

Knowledge Based Systems, Inc., College Station, TX.

Mayer, R. J.; Cullinane, T. P.; DeWette, P. S.; Knappenberger, W. B.; Perakath, B.

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Industrial Coll. of the Armed Forces, Washington, DC.

Bowen, W. R.

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Information Technology Vision for the U.S. Fiber/Textile/Apparel Industry Interim Rept

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Moncarz, H. T.;

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Initial Graphics Exchange Specification (IGES); Category - Software Standard; Subcategory - Graphics and Information Interchange

National Inst. of Standards and Technology (CSL), Gaithersburg, MD.

30 Nov 92 12p

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National Inst. of Standards and Technology, Gaithersburg, MD.

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Interactive Interface for National Center for Atmospheric Research (NCAR) Graphics Abstract Only

National Aeronautics and Space Administration, Washington, DC; National Center for Atmospheric Research, Boulder, CO.

Buzbee, W. ; Lackman, R. L.

1992 262p

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(Order as N93-25792/

Interchangeability of SGML and ODA

National Inst. of Standards and Technology (NCTL), Gaithersburg, MD. Office Systems Engineering Group.

Nicholas, C. K.; Welsch, L. A.

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International Workshop on Concurrent Engineering Product Realization (1st), (CIRP)

International Institution for Production Engineering Research. Human Factors Action Research Group.

Kahaner, D. K.

1992 16p

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Introduction to Graphical User Interfaces and Their Use by CITIS

National Inst. of Standards and Technology (CSL), Gaithersburg, MD.

Sherrick, S. Q.

Jul 92 25p

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Price code PC A03/MF A01

Issues in Open EDI Research Note

Valtion Teknillinen Tutkimuskeskus, Espoo (Finland). Lab. for Information Processing.

Veijalainen, J.

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Catholic Univ. of America, Washington, DC. Dept. of Mechanical Engineering.

Kramer, T. R.

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Manufacturing Standards. (Latest Citations from the NTIS Database) Rept. for Jan 80-Feb 92

National Technical Information Service, Springfield, VA.

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Microelectronics and Computer Technology Corp., Austin, TX.

Moreno, H. ; Stark, S.

31 Dec 92 32p

Order number AD-A262 959/0CDJ
Price code PC A03/MF A01

MCM/Chip Concurrent Engineering Validation Quarterly Rept. no 3, Jul-Sep 92

Microelectronics and Computer Technology Corp., Austin, TX.

Moreno, H.

30 Sep 92 26p

Order number AD-A257 415/0CDJ
Price code PC A03/MF A01

MCM/Chip Concurrent Engineering Validation Quarterly technical Rept. No. 2, Apr-Jun 92

Microelectronics and Computer Technology Corp., Austin, TX.

Moreno, H.

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Military Specification - Digital Representation for Communication of Product Data - IGES Application Subsets and IGES Application Protocols (Amendment 1)

Department of Defense, Washington, DC.

14 Dec 92 9p

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Military Specification - Digital Representation for Communication of Illustration Data. CGM Application Profile (Amendment 1)

Department of Defense, Washington, DC.

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CALS Publications

Military Specification - Raster Graphics Representation In Binary Format, Requirements for (December 14, 1992)

Department of Defense, Washington, DC.

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Price code PC A04/MF A01

Military Specification. Data Base, Revisable - Interactive Electronic Technical Manuals, for the Support of (November 20, 1992)

Department of Defense, Washington, DC.

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Military Specification. Digital Representation for Communication of Product Data - IGES Application Subsets and IGES Application Protocols

Department of Defense, Washington, DC.

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Department of Defense, Washington, DC.

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Price code PC A04/MF A01

Military Specification. Quality Assurance Program - Interactive Electronic Technical Manuals and Associated Technical Information; Requirements for (November 20, 1992)

Department of Defense, Washington, DC.

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Price code PC A03/MF A01

Military Standard - Automated Interchange of Technical Information, November 3, 1992

Department of Defense, Washington, DC.

3 Nov 92 47p

Order number PB93-962001CDJ
Price code PC A03/MF A01

Military Standards for CITIS - Preliminary Draft Dated 18 May 1992

National Security Industrial Association, Washington, DC; CALS Industry Steering Group, Washington, DC.

19 May 92 25p

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Multimedia Electronic Mail - Standards and Performance Simulation Master's Thesis

Naval Postgraduate School, Monterey, CA.

Choi, N. J.

Mar 92 94p

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NASA-IGES Geometry Data Exchange Standard

National Aeronautics and Space Administration, Moffett Field, CA. Ames Research Center.

Blake, M. W.; Chou, J. J.; Kerr, P. A.; Thorp, S. A.

Apr 92 529p

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NATO Industry Advisory Group Report on the Applicability of CALS to the NATO Countries

CALS/CE Industry Steering Group, Washington, DC.

1992 101p

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Next Generation Documents

National Inst. of Standards and Technology (NCTL), Gaithersburg, MD. Office Systems Engineering Group.

Wilson, R. B.; Sies, R. F.

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Price code PC A03/MF A01

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National Inst. of Standards and Technology (MEL), Gaithersburg, MD. Factory Automation Systems Div.

Libes, D.; Clark, S.

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Not available NTIS

NIST Express Working Form Programmer's Reference. (Revised April 1992). National PDES Testbed Report Series

National Inst. of Standards and Technology, Gaithersburg, MD.

Clark, S. N.; Libes, D.

3 Apr 92 63p

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Price code PC A04/MF A01

NIST PDES Toolkit - Technical Fundamentals. National PDES Testbed Report Series. Revised April, 1992

National Inst. of Standards and Technology, Gaithersburg, MD.

Clark, S. N.; Libes, D.

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Price code PC A03/MF A01

Operational Concept Document for the Manufacturing Optimization (MO) System Final Rept

Raytheon Co., Tewksbury, MA. Missile Systems Labs.

Lapointe, L. J.; Bryant, R. V.

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National Inst. of Standards and Technology (CSL), Gaithersburg, MD.

Wilson, R. B.

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Logistics Management Inst., Bethesda, MD.

Drake, D. J.; Kelley, G. T.; Crosslin, R. L.

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PDES Application Protocol Suite for Composite (PAS-C). Functional Needs/State-of-the-Art Comparison for the PAS-C Program Final Rept. 15 Jul 91-15 Apr 92

Weapons Lab., Kirtland AFB, NM; South Carolina Research Authority, North Charleston.

Hunten, K.; Judd, J.; Goosen, T.; Ganus, F.; Biddle, D.

May 92 115p

Order number AD-A258 613/9CDJ
Price code PC A06/MF A02

PDES Application Protocol Suite for Composites (PAS-C) 1992 Annual Report for the PAS-C Program Final Rept. 1 Sep 91-31 Aug 92

Weapons Lab., Kirtland AFB, NM; South Carolina Research Authority, North Charleston.

Ziolko, G.; Baluch, S.; Karns, L.; Anderson, J.; Ganus, F.

30 Sep 92 28p

Order number AD-A258 625/3CDJ
Price code PC A03/MF A01

PDES Application Protocol Suite for Composite (PAS-C) Scoping and Benefits Criteria. Volume 1. Executive Summary and Overview Final Rept. 15 Jul 91-15 Apr 92

South Carolina Research Authority, North Charleston.

Paul, G.; Biddle, D.; Judd, J.; Hunten, K.; Ganus, F.;

May 92 44p

Order number AD-A258 833/3CDJ
Price code PC A03/MF A01

PDES Application Protocol Suite for Composites (PAS-C) - IDEFO Activity Models and Information Needs for the PAS-C Program Rept. for Jul-Dec 91

South Carolina Research Authority, North Charleston.

Stowe, M.; Grella, R.; Hunten, K.; Ganus, F.; Biddle, D.

Mar 92 260p

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Price code PC A12/MF A03

Post-Dam System. Volume 2. Post-Dam Expert System (PDES) Final Rept. 1 Feb 89-1 Mar 91

Applied Research Associates, Inc., Panama City, FL.

Warren, T. L.; Howard, J. J.; Merkle, D. H.

Oct 92 133p

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Price code PC A07/MF A02

Procedures Manual for Testing CGM Generator Products That Claim Conformance to FIPS 128 and MIL-D-28003 Rept. for Jan 90-Dec 92

National Inst. of Standards and Technology (CSL), Gaithersburg, MD. Information Systems Engineering Div.

Benigni, D. R.

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Price code PC A07/MF A02

Proceedings of the Advance Planning Briefing for Industry - Competitive Acquisitions in the New Strategic Environment Held in Eatontown, New Jersey on 12-13 May 1992

Army Communications-Electronics Command, Fort Monmouth, NJ.

May 92 622p

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PC A99/MF A06

Product Data Exchange Baseline Activities. Volume 1, Release 1, October 1992

National Initiative for Product Data Exchange, Gaithersburg, MD.

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Price code PC A06/MF A02

Product Data Exchange Baseline Activities. Volume 2, Release 1, October 1992

National Initiative for Product Data Exchange, Gaithersburg, MD.

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National Initiative for Product Data Exchange, Gaithersburg, MD.

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Price code PC A03/MF A01

RAMCAD (General Dynamics, San Diego, CA. Convair Division) Final rept. Jul 87-Jul 91

General Dynamics, San Diego, CA. Convair Div.

Dawson, W. J. ; Glor, P. J. ; Klement, M. A. ; McManus, J. C. ; Markowitz, S. E.

Nov 92 111p

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Price code PC A06/MF A02

RAMP Product Data Translation System Printed Wiring Assembly Product Data Definition Document Draft Rept

ENSR Consulting and Engineering, Florence, AL.

31 Jan 92 103p

Order number AD-A251 560/9CDJ
Price code PC A06/MF A02

Ramp Technology and Intelligent Processing in Small Manufacturing

National Aeronautics and Space Administration, Washington, DC; South Carolina Research Authority, North Charleston.

Rentz, R. E.

Apr 92 205p

Order number N92-24987/9CDJ
Price code PC A10/MF A03

Rapid Acquisition of Manufacturing Parts (RAMP) Product Data Translation System (RPTS) for Printed Wiring Assemblies (PWA). IDEFO Activity Model Draft Rept

ENSR Consulting and Engineering, Florence, AL.

Fletcher, R.

10 Apr 92 39p

Order number AD-A251 559/1CDJ
Price code PC A03/MF A01

Raster Data Transfer Test Using DATA DEVELOPMENT Inc. Produced Data - MIL-R- 28002 Type I Raster. Quick Short Test Report

Air Materiel Command, Wright-Patterson AFB, OH.

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Raster Graphics Validation

National Inst. of Standards and Technology, Gaithersburg, MD.

Spielman, F. E.

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Release and Installation Notes for Version 4.0 of the RAMP Product Data Translation System (RPTS) Small Mechanical Parts (SMP) for Rock Island Interim Rept

ENSR Consulting and Engineering, Florence, AL.

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CALS/CE Industry Steering Group, Washington, DC.

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Report on the Raster Capabilities of MIL-R-28002A and MIL-D-28003A

National Inst. of Standards and Technology (CSL), Gaithersburg, MD.

Rosenthal, L. S.

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National Inst. of Standards and Technology, Gaithersburg, MD.

Kemmerer, S. J.

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Kemmerer, S. J.

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Institute for Defense Analyses, Alexandria, VA; Institute for Defense Analyses, Alexandria, VA.

Richter, K. J.; Barnett, D. S.; Alluisi, E. A.

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SGML Encoding for Technical Reports

Oak Ridge National Lab., TN.

Mason, J. D.

1992 7p

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Rutherford Appleton Lab., Chilton (England).

Thomas, R. E.

Nov 92 33p

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Price code PC E05/MF E05

Simulation-Based Approach to Testing Embedded Software

Valtion Teknillinen Tutkimuskeskus, Oulu (Finland). Computer Technology Lab.

Honka, H.

c1992 120p

Order number PB93-165041CDJ
Price code PC A06/MF A02

Software and Design Document for the Rapid Acquisition of Manufactured Parts (RAMP) Small Mechanical Parts (SMP), Generative Process Planning Environment (GPPE). Version 1.5 Interim Rept

ENSR Consulting and Engineering, Florence, AL.

15 Apr 92 106p

Order number AD-A251 557/5CDJ
Price code PC A06/MF A02

Software Design Specification for the Manufacturing Optimization (MO) System

Raytheon Co., Tewksbury, MA. Missile Systems Labs.

Lapointe, L. J.; Laliberty, T. J.; Bryant, R. V.

Dec 92 171p

Order number AD-A259 707/8CDJ
Price code PC A08/MF A02

Spacecraft Fabrication and Test Integration - Leveraging Existing Information

Lawrence Livermore National Lab., CA.

Sanders, D. ; Storch, N. ; Sharick, T. ; LeClair, S.

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Price code PC A02/MF A01

Status Report for First Quarter, FY 92 (October 1 through December 31, 1991). National PDES Testbed Report Series

National Inst. of Standards and Technology (MEL), Gaithersburg, MD.

Bloom, H. M.

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Price code PC A04/MF A01

Status Report for Second Quarter FY92 (January 1 through March 31, 1992). National PDES Testbed Report Series Status Rept

National Inst. of Standards and Technology (MEL), Gaithersburg, MD.

Bloom, H. M.

9 Oct 92 68p

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Price code PC A04/MF A01

STELAR - An Experiment in the Electronic Distribution of Astronomical Literature Abstract Only

National Aeronautics and Space Administration, Washington, DC; Hughes STX, Inc., Greenbelt, MD.

Warnock, A.; Vansteenburg, M. E.; Brotzman, L. E.; Gass, J.; Kovalsky, D.

1992 126p

Order number N94-22438/3CDJ
PC A07/MF A02

STEP Development Methods - Specification of Semantics for Information Sharing

Product Data Integration Technology, Long Beach, CA; National Inst. of Standards and Technology (MEL), Gaithersburg, MD. Fabrication Technology Div.

Danner, W. F.; Yang, Y.

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Order number PB93-113686CDJ
Price code PC A03/MF A01

Symbolic Model Checking. An Approach to the State Explosion Problem Doctoral Thesis

Carnegie-Mellon Univ., Pittsburgh, PA. Dept. of Computer Science.

McMillan, K. L.

1992 206p

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Technical Assessment of the Reserve Component Automation System (RCAS) and the Joint Computer Aided Acquisition and Logistics System (JCALS). Version 1.0 Final Rept

Defense Information Systems Agency, Arlington, VA. Center for Information Management.

Bennis, J.

Nov 92 87p

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Technical Program of the Factory Automation Systems Division 1992

National Inst. of Standards and Technology (MEL), Gaithersburg, MD. Factory Automation Systems Div.

Bloom, H. M.; Masters, L. W.

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Price code PC A03/MF A01

Technologiemodellierung fuer die rechnerintegrierte Produktion. Abschlussbericht. (Technology Modelling for the Computer Aided Manufacturing. Final Report)

Technische Hochschule Aachen (Germany). Lab. fuer Werkzeugmaschinen und Betriebslehre; GERFEMA Gesellschaft fuer Rationalisierung, Forschung und Entwicklung im Maschinenbau m.b.H., Chemnitz (Germany).

Eversheim, W.

May 92 76p

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Textiles and Composites '92. Symposium Held in Tampere, Finland on June 15- 18, 1992

Valtion Teknillinen Tutkimuskeskus, Tampere (Finland). Tekstiililaboratorio.

Meinander, H.

c1992 345p

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Transformr - A Prototype STEP Exchange File Migration Tool

National Inst. of Standards and Technology, Gaithersburg, MD.

Clark, S. N.

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Price code PC A03/MF A01

TRW CALS COTS Product Guide, Second Edition

TRW, Inc., Redondo Beach, CA.

31 Jan 92 249p

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Naval Postgraduate School, Monterey, CA. Dept. of Administrative Sciences.

San Miguel, J. G.

21 Oct 92 24p

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Use of STEP in an Integrated Manufacturing Environment

Oak Ridge Y-12 Plant, TN.

Cain, W. D.

1992 10p

Order number DE92008417CDJ
Price code PC A02/MF A01

User's Guide for the Apparel STEP Translator for PC Compatible Computers

National Bureau of Standards (NEL), Gaithersburg, MD. Machine Intelligence Group.

Murphy, T.; Moncarz, H. T.

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Price code PC A03/MF A01

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Naval Postgraduate School, Monterey, CA.

Chelouche, E.

Mar 92 102p

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Validation Testing System - Reusable Software Component Design. National PDES Testbed Report Series

National Inst. of Standards and Technology, Gaithersburg, MD.

Morris, K. C.; Sauder, D.; Ressler, S.

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Achieving a System Operational Availability Requirement (ASOAR) Model Methodology Technical Rept

Army Communications-Electronics Command, Fort Monmouth, NJ.

Price, B. C.

Jun 91 59p

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Price code PC A04/MF A01

Advanced Materials Aspects of Concurrent Engineering Final Rept. Aug-Oct 91

Institute for Defense Analyses, Alexandria, VA; Institute for Defense Analyses, Alexandria, VA.

Mayer, G.

Oct 91 29p

Order number AD-A245 437/9CDJ
Price code PC A03/MF A01

Annual CALS Supplier Forum (2nd). Held in Indianapolis, Indiana on May 20- 21, 1991. Volume 1. Computer-Aided Acquisition and Logistics Support

CALS Industry Steering Group, Washington, DC.

1991 243p

Order number PB91-220210CDJ
Price code PC A11/MF A03

Annual CALS Supplier Forum (2nd). Held in Indianapolis, Indiana on May 20- 21, 1991. Volume 2. Computer-Aided Acquisition and Logistics Support

CALS Industry Steering Group, Washington, DC.

1991 288p

Order number PB91-220228CDJ
Price code PC A13/MF A03

Annual Technical Symposium (28th) - Achieving Technical and Management Excellence. Held in Arlington, Virginia on April 11, 1991

Naval Sea Systems Command, Washington, DC.

Johnston, J.; O'Colman, D.; Mathai, C.

1991 257p

Order number PB91-189134CDJ
Price code PC A12/MF A02

Apparel STEP Translator

National Bureau of Standards (NEL), Gaithersburg, MD. Machine Intelligence Group.

Moncarz, H. T.; Lee, Y. T.

Jun 91 19p

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Price code PC A03/MF A01

Architectural Guidelines for Multimedia and Hypermedia Data Interchange - Computer Aided Acquisition and Logistics Support/ Concurrent Engineering (CALS/CE) and Electronic Commerce/Electronic Data Interchange (EC/EDI) Master's Thesis

Naval Postgraduate School, Monterey, CA.

Korzyk, A. D.

Sep 91 106p

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Architecture for the Validation Testing System Software Testbed Report Series

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Morris, K. C.

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Assessment of the ModSim/TWOS Parallel Simulation Environment

Los Alamos National Lab., NM.

Rich, D. Or.; Michelsen, R. E.

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Automated Logistics Support Analysis Tool, Version 1.0, User's Manual. Battle Damage Assessment and Repair (LSA Subtask 303.2.11) Final Rept

American Power Jet Co., Ridgefield, NJ.

Dulcos, R.

Apr 91 83p

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Price code PC A05/MF A01

Automated Logistics Support Analysis Tool, Version 1.0 User's Manual, LSA Task 101, Early LSA Strategy Final Rept

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Dulcos, R.; Shepherd, N.

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Automated Logistics Support Analysis Tool, Version I. 0, User's Manual - Functional Requirements Risk Identification (LSA Subtask 301.2.3) Final Rept

American Power Jet Co., Ridgefield, NJ.

Dulcos, R.; Shepherd, N.

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Dulcos, R.; Shepherd, N.

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Aviation Diagnostics and Maintenance (ADAM) System Preliminary Concept of Operation and Functional Description Final Rept. Oct 90-Sep 91

David Taylor Research Center, Bethesda, MD.

Le Beau, R. P.; Kramer, M. T.; Carlberg, J. R.; DePriest, M. S.; Eikel, H. A.

Sep 91 76p

Order number AD-A242 598/1CDJ
Price code PC A05/MF A01

Aviation Diagnostics and Maintenance System Preliminary Concept of Operation and Functional Description (Test and Evaluation Report) Final Rept

David Taylor Research Center, Bethesda, MD.

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Danner, W. F.

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Sorensen, H. B.; Park , J. S.; Awtry, P.

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Air Force Human Resources Lab., Brooks AFB, TX; Dynamics Research Corp., Andover, MA.

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Barnard, A.

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CALS Industry Steering Group, Washington, DC.

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Smith, R.

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Department of Energy, Washington, DC; Lawrence Livermore National Lab., CA.

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CALS Baseline Architecture Analysis of Weapons System. Technical Information - Army, Draft. Volume 8

Transportation Systems Center, Cambridge, MA.

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Nash, S. H.

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Computer Graphics Metafile (CGM). (Latest citations from the Computer Database) Rept. for Jun 84-Oct 89

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Logistics Management Inst., Bethesda, MD.

Doby, J. S.

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Logistics Management Inst., Bethesda, MD.

Lycas, J.

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CALS Industry Steering Group, Washington, DC.

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CALS Industry Steering Group, Washington, DC.

Delaura, F.; Heafner, J.; Lukasik, V.; Ringer, D.; Weinman, M.

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Monahos, T. J.

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Computer-Aided Design for Built-In-Test (CADBIT)-BIT (Built-In-Test) Library. Volume 2 Final Rept. Sep 86-Sep 88

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Baluta, H.

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Computer-Aided Design for Built-In-Test (CADBIT)-Software Specification. Volume 3 Final rept. Sep 86-Sep 88

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Kelly, T.

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KDT Industries, Inc., Austin, TX.

Bilby, C.

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Air Force Wright Aeronautical Labs., Wright-Patterson AFB, OH; Universal Technology Corp., Dayton, OH.

Henghold, W. M.; Shumaker, G. C.; Baker, L.

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Air Force Human Resources Lab., Brooks AFB, TX; RJO Enterprises, Inc., Dayton, OH.

Schroder, R.; Teall, T. A.; Millhouse, R.

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Cost Considerations of an Integrated Design-Manufacturing-Support System Final Rept

Institute for Defense Analyses, Alexandria, VA.^Shared Bibliographic Input; Institute for Defense Analyses, Alexandria, VA.

Cheslow, R. T.; McCullough, J. D.

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Data Exchange Strategy. Part 1. Review of Digital Data Exchange Technology Final Rept

David Taylor Research Center, Bethesda, MD. Computation, Mathematics and Logistics Dept.

Brainin, J.; Deeds, L.; Chen, R.; McCarthy, M.; Battey, P.

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Data Model and Test Criteria Development for Context Driven Integrated Model A1 Final Rept

PDES, Inc., Charleston, SC.

Anderson, B.; Grout, S.; Kimura, K.; Krishnaswami, R.; Langenbach, C.

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Westinghouse Hanford Co., Richland, WA.

Portsmouth, J. H.; Genoni, S. K.

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David Taylor Research Center, Bethesda, MD.

Rainey, S. C.; Fuller, J. J.; Jorgensen, E. L.;

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Price code PC A06/MF A01

Engineering Drawing Transfer Test Between Tracor and NAVSEACOMBATSYSENGSTA (Naval Sea Combat System Engineering Station) - MIL-D-28000 Class II (IGES (Initial Graphics Exchange Specification))

Lawrence Livermore National Lab., CA.

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Engineering Drawing Transfer Test with Douglas Aircraft Company - MIL-D- 28000 Class II (IGES) (Initial Graphics Exchange Specifications)

Department of Energy, Washington, DC; Lawrence Livermore National Lab., CA.

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Generic Architecture for Computer Integrated Manufacturing Software Based on the Product Data Exchange Specification

National Inst. of Standards and Technology (NEL), Gaithersburg, MD. Factory Automation Systems Div.

Fowler, J. E.

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Geometry Model Version 1B for the PDES, Inc., Configuration Item Geometry Model Final Rept

PDES, Inc., Charleston, SC.

Judd, J.

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PDES, Inc., Charleston, SC.

Ganus, F.; Ziolko, G.; Fremgen, D.; Kiggans, B.; Yang, Y.

24 Feb 89 181p

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Price code PC A09/MF A01

Graphics Application Programmer's Interface Standards and CALS (Computer- Aided Acquisition and Logistic Support)

National Inst. of Standards and Technology (NCSL), Gaithersburg, MD.

Skall, M. W.; Kemmerer, S. J.

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Logistics Management Inst., Bethesda, MD.

Drake, D. J.

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Guidelines for the Specification and Validation of IGES (Initial Graphics Exchange Specification) Application Protocols

Sandia National Labs., Albuquerque, NM; National Inst. of Standards and Technology (NEL), Gaithersburg, MD. Center for Building Technology.

Harrison, R. J.; Palmer, M. E.

Jan 89 111p

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PDES, Inc., Charleston, SC.

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Price code PC A05/MF A01

Interpretation of CAD (Computer Aided Design) Models through IGES (Initial Graphics Exchange Specification) Interface

Massachusetts Univ., Amherst. Dept. of Industrial Engineering and Operations Research.

Nnaji, B. Or.; Kang, T. S.

1989 58p

Order number PB90-121294CDJ
Price code PC A04/MF A01

Investigation of IGES (Initial Graphics Exchange Specification) for CAD/CAE Data Transfer

National Aeronautics and Space Administration, Washington, DC; Missouri Univ.-Rolla. Dept. of Computer Science.

Zobrist, G. W.

Oct 89 420p

Order number N90-16686/9CDJ
Price code PC A18/MF A03

Investigation of IGES for CAD/CAE Data Transfer Final Rept. Jun-Aug 89

National Aeronautics and Space Administration, Cocoa Beach, FL. John F. Kennedy Space Center.

Hosler, R.; Armstrong, D. W.; Zobrist, G. W.

Oct 89 32p

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Price code PC A03/MF A01

LSAR Seminar. MIL-STD-1388-2B

National Inst. of Standards and Technology, Gaithersburg, MD.

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Management of Risk and Uncertainty in Product Development Processes Final Rept. Apr-Sep 88

Institute for Defense Analyses, Alexandria, VA.^Shared Bibliographic Input; Institute for Defense Analyses, Alexandria, VA.

Tse, E.; Cralley, W. E.

Jun 89 98p

Order number AD-A211 196/1CDJ
Price code PC A05/MF A01

National Institute of Standards & Technology Establishes PDES Testbed NTIS Tech Note

Department of Commerce, Washington, DC; National Bureau of Standards, Gaithersburg, MD.

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Kuan, A.; Shah, S.; Smith, K.

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Dolin, R. M.

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Kelly, J. C.; Parks, R. E.; Saylors, D. B.

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Index

A

Access
Configuration Management Concept 20
Accounting
Data Format Standardization with 3
Acquisition
Annual CALS Supplier Forum (2nd) 17
Best Value Acquisition Symposium 2
CALS Architecture Study. Report 18
CALS Baseline Architecture Analy 35
CALS EXPO '88. 'Quality and Prod 40
CALS-HSC Data Element Dictionary 9
Computer-Aided Acquisition and L 35
Data Exchange Strategy. Part 1. 36
Effects on Weapon Systems' Produ 5
Electronic Data Interchange in U 11
Implementing Electronic Data Int 6
Improving Supply Management - Th 12
Industrial Insights on the DoD C 41
Introduction to MIDS. Materials 44
Military Handbook - Computer-Aid 30
Paperless Material Inspection an 24
Perspectives, Key Themes, and Re 42
Presentations at the Keynote Ses 24
Proceedings of CALS EXPO '89. 'C 38
RAMP Product Data Translation Sy 15
Rapid Acquisition of Manufacturi 15
Acquisition Logistics
Potential Improvements in the Lo 24
ADAM (Aviation Diagnostics and Maintenance)
Aviation Diagnostics and Mainten 18
Advanced Composites
Innovative Life Cycle Management 23
Aerospace Industry
Government/Contractor Developmen 6
Air Force Planning
Software Product Data (SPD) Curr 33
Air Force Procurement
Baseline Architecture Analysis or 34
Department of the Air Force CALS 21
Production Definition Data Autom 32
United States Air Force Computer 43, 44
Air Force Systems Command
Integrated Information Support S 30
Air Force Training
Training Systems for Maintenance 34
Aircraft Components
Engineering Drawing Transfer Tes 36
Aircraft Construction Materials
Lessons Learned for Composite St 23
Aircraft Design
Changing Nature of Design 9
Concurrent Engineering in Design 20
Lessons Learned for Composite St 23
Aircraft Maintenance
Aviation Diagnostics and Mainten 18
Aircraft Production
Government/Contractor Developmen 6
Aircraft structures
Concurrent Engineering in Design 20
ANSI (American National Standards Institute)
DOD Implementation Guidelines fo 21
AP (Application Protocol)
Validating STEP Application Mode 26
Aperture Cards
Comparison of CDJTT Group 4 Comp 40
Apparel Manufacturing
Proceedings of the Annual Academ 32
Application Protocols
Initial Graphics Exchange Specif 6
Proceedings of the AP Validation 7
Prototype Application Protocol f 7
Shtolo-Converting STEP Short Lis 8
Architecture (Computers)
Entwurf Eines Modells der Verarb 11
Generic Architecture for Compute 36
Armed Forces Procurement
DSMC (Defense Systems Management 41
Army Procurement
Baseline Architecture Analysis o 35
DSMC (Defense Systems Management 41
Astronomy
STELAR - An Experiment in the El 16
Australia
Computer-Aided Acquisition and L 9
Automated Manufacturing Research Facility
AMRF Part Model Extensions 34
Parser That Converts a Boundary 38
VMS Uses PDES to Integrate CAD/C 34
Automatic
Maximization of Automatic Paymen 23
Automatic Control
Evaluation of Automated Decision 45
L'Ingenierie Concourante (Concur 23
Automatic Indexing
OSD CALS Architecture Master Pla 37
Automation
CALS EXPO '88. 'Quality and Prod 40
CALS EXPO '89. 'CALS Impact - A 35
CALS-Markup Requirements and Gen1, 2, 19
Electronic Data Interchange in P 29
Improving Procurement through Pr 12
Intelligent Automated Process Pl 1
Paperless Material Inspection an 24
Paperless Procurement - The Impa 14
Product Definition Data (PDD) Cu 38
Production Definition Data Autom 32
Report on Standards and Specific 47
Report to the Committees on Appr 45
Strategic Plan for the Factory A 8
Technical Program of the Factory 17
Autonomy
Avoin EDI (Open EDI) 8
Auxiliary Equipment (Computers)
National Technical Report, Vol. 30

B

Ballistic Missile Defense
Recent results from the Spacecra 7
Spacecraft fabrication and test 16
Benchmarking
Initial Graphics Exchange Specif 47
Benefit Cost Analysis
Computer-Aided Acquisition and L 20
Implementation of OLTRS within D 23
Benefits
Benefit Analysis Report, United 35
PDES Application Protocol Suite 15
Bibliographies
Annotated Reading List for Concu 34
Computer Aided Acquisition and L 2, 27
Computer Graphics Metafile (CGM) 2, 35
Computer Graphics Standards. (La 3
Concurrent Engineering. (Latest 1
Electronic Data Interchange - Bu 1, 5
Electronic Data Interchange Soft 5
Electronic Data Interchange. (La 11
Manufacturing Standards. (Latest 13
Standard Generalized Markup Lang 33
Binary Data
Military Specification - Raster 14
Bioengineering
Control System Software, Simulat 21
BSM (Business Scenario Modelling)
Transforming Cross-Industry Prac 26
Building
Global Model for Building-Projec 41
Business
Gateway to Total Participation 22
Businesses
Electronic Data Interchange. (La 11
Transforming Cross-Industry Prac 26

C

C Codes
CALS Test Network MIL-D-28003 CG 19
CAE (Computer Aided Engineering)
Integration of R and M into the 42
Calibrating
New Video Describes CALS Program 31
CALS
Air Force Tech Order Management 40
Annual CALS Supplier Forum (2nd) 17
Applications of Concurrent Engin 34
Aviation Diagnostics and Mainten 18
Baseline Architecture Analysis or 34, 35
Benefit Analysis Report, United 35
Best Value Acquisition Symposium 2
CALS - Making It Happen. Proceed 18
CALS - The Time is Now. CALS EXP 27
CALS 101 - An Introductory Overv 18
CALS Architecture Study. Report 18
CALS Data Protection Matrix for 19

Index

CALS Database Usage and Analysis 19
CALS EXPO '88. 'Quality and Prod 40
CALS EXPO '89. 'CALS Impact - A 35
CALS Expo' 92 (5th). 'Catalyst f 8
CALS EXPO '92 - IDEF Modeling. A 8
CALS Industry Steering Group (IS 19
CALS Information Technology Brie 2
CALS Infrastructure Analysis 27
CALS Mailing List (for Microcomp 8
CALS Phase 2 - Data Security Iss 27
CALS Standards Overview 19
CALS Test Network Handbook, July 19
CALS Test Network MIL-D-28003 CG 19
CALS Test Network Strategic Plan 35
CALS Testing - Programs, Status 9
CALS Training Criteria Formulate 27
CALS-Automated Interchange of Te 19
CALS-CE Industry Steering Group 9
CALS-Contractor Integrated Techn 9, 19
CALS-Department of Defense Acqui 19
CALS-Department of Defense Compu 19
CALS-Digital Representation for 19
CALS-Markup Requirements and Gen 19
CALS-Raster Graphics Representat 19
CALS/CE Bulletin Board User Guid 2, 9
CALS/CE Government and Industry 2
CALS/CE Industry Steering Group 9
Charter of the CALS-CE Industry 9
Collection of Technical Studies 20, 27
Comparison of CDJTT Group 4 Comp 40
Compendium of Occasional Papers 9
Computer Aided Acquisition and L 2, 27
Computer Aided Logistics Support 44
Computer Assisted Data Acceptanc 20
Computer-Aided Acquisition ... 9, 10, 20, 35
Concurrent Engineering Technical 20
CTN Summary of DSREDS, EDCARS, E 10
Data Object Classification - A N 10
Database Language SQL - Integrat 10
Department of Defense Corporate 21
Department of the Air Force CALS 21
Department of the Navy CALS Arch 10
Detailed Design Specification fo 3
Development Plan - STEP Conforma 21
DoD's Technical Information Publ 21
Draft Handbook of Concurrent Eng 11
Draft Military Specification - M 21, 22
Draft Report on Backfitting Prog 22
DSMC (Defense Systems Management 41
EDI's Role in a Strategy for Dig 29
Emerging Hypermedia Standards - 22
Engineering Data Transfer Test w 11
Engineering Data TransferTest wi 11
Enhanced Evaluation, Selection a 11
First Principles of Concurrent E 22
Framework for Developing a CALS 29
Graphics Standards in the Comput 29
Ils, Ce, Cals du Concept a la Mi 23
Implementation of OLTRS within D 23
Improving Supply Management - Th 12
Incentives and Funding Mechanism 30
Incorporating CALS Requirements 12
Integration of R and M into the 42
Integration of the Air Force Con 30
Introduction to Graphical User I 13
Joint CALS-CE Industry-Governmen 23
LSAR Seminar. MIL-STD-1388-2B 37
Military Specification - Digital 13, 23, 42
Military Specification - Markup 23
Military Specification - Raster 14
Military Specification. Data Bas 14
Military Specification. Digital 14
Military Specification. Manuals, ... 14
Military Specification. Quality 14
Military Standard - Automated In 14
Military Standards for CITIS - P 14
Model Risk Assessment of CALS In 23
National Initiative for Product 23
NATO Industry Advisory Group Rep 14
Navy CALS Vision. Draft 2.0 30
Next Generation Documents 14
NIAG Report on the Applicability 24
NIST CGM Information Pack for Te 24
NIST Support of the CALS Program 24
OSD CALS Architecture Master Pla 37, 38
Overview of the Document Style S 14
Perspectives, Key Themes, and Re 42
Preliminary CALS Phase 2 Archite 38
Premieres Conclusions d'UN Group 24
Presentations at CALS Conference 38
Presentations at the Keynote Ses 24
Procedures Manual for Testing CG 15
Proceedings of CALS EXPO '89. 'C 38
Proceedings of the AP Validation 7
Product Data Exchange Baseline A 15
Product Definition Data (PDD) Cu 38
Product Definition Data Standard 45
Product Definition Data System C 38
Production and Logistics Strateg 38
Production Definition Data Autom 32
Questions and Answers You May Ha 15
Raster Data Transfer Test Using 15
Raster Graphics - A Tutorial and 7
Raster Graphics Validation 16
Relationship Between CALS and Co 32
Relationship Between Computer-Ai 39
Report on Standards and Specific 47
Report on the Potential Legal Is 16
Report on the Raster Capabilitie 16
Report to the Committee on Appro 42
Report to the Committees on Appr 45
Requirements and Recommendations 16
Results of the Work of the Inter 25
SQL3 Support for CALS Applicatio 25
Status Report for Second Quarter 16
Survey of CALS Manpower and Pers 25
Survey of Training Development S 26
Technical Publication Transfer T .. 26, 33, 34
Transforming Cross-Industry Prac 26
Transformr - A Prototype STEP Ex 17
TRW CALS COTS Product Guide, Sec 17
United States Air Force Computer 43
Use of the IRDS (Information Res 40
Use of the IRDS Standard in CALS 40

CALS (Computer-Aided Acquisition and Logistic

Air Force CALS Business Practice 1
CALS Baseline Architecture Analy 35
CALS EXPO '88. 'Quality and Prod 40
CALS Infrastructure Analysis. Dr 27
CALS-Automated Interchange of Te 1, 2
CALS-Contractor Integrated Techn 1, 2
CALS-Department of Defense Compu 1, 2
CALS-Digital Representation for 1, 2
CALS-HSC Data Element Dictionary 9
CALS-Markup Requirements and Gen 1, 2
CALS-Raster Graphics Representat 1, 2
Collection of Technical Studies 19, 40
Computer Graphics Metafile (CGM) 2
Computer-Aided Acquisition and L 40
DSMC (Defense Systems Management 41
Integration of R and M into the 42
Navy CALS Vision. Draft 2.0. Vol 30
Navy/Marine Corps Manager's Desk 7
OSD CALS Architecture Master Pla 37
Preliminary CALS Phase II Archit 38
Presentations at CALS Conference 42
Technical Publication Transfer T 26, 33

Canada

Industry Sector Analysis, Canada 6

Cargo Handling

Doing Business with DoD Using El 5

Cargo Transportation

Potential Military Application or 32

Catalogs (Publications)

Distributed Publishing of Electr 21

CD ROM

Overview of the Product Data Hyp 31

CE (Concurrent Engineering)

CALS-CE Industry Steering Group 9
Draft Handbook of Concurrent Eng 11
Joint CALS-CE Industry-Governmen 23

Ceramic Materials

Composites - Materials of the Fu 9

CGM (Computer Graphics Metafile)

Collection of Technical Studies 19, 27
Computer Graphics Metafile (CGM) 2, 3
Detailed Design Specification fo 3
Incorporating CALS Requirements 12
NIST CGM Information Pack for Te 24
Procedures Manual for Testing CG 15

Chemically-Sensitive Microsensor

Evaluation of an Interdigitated 29

Chips (Electronics)

MCM/Chip Concurrent Engineering 13

CIM (Corporate Information Management)

Department of Defense Corporate 21

Circuit Testers

Symbolic Model Checking. An Appr 17

CIRP (International Institute for Production

International Workshop on Concur 13

CITIS (Contractor Integrated Technical Inform

CALS-Contractor Integrated

Techn 1, 2, 9, 19
Enhanced Evaluation, Selection a 11
Guide for Specifying and Buildin 12
Introduction to Graphical User I 13
Military Standards for CITIS - P 14
Clothing
Proceedings of the Annual Academ 32
Clothing Industry
Apparel STEP Translator 18
Extending the Standard for the E 29
Information Technology Vision fo 13
Prototype Application Protocol f 7
Report on Scoping the Apparel Ma 7
User's Guide for the Apparel STE 17
CMS (Configuration Management System)
Configuration Management Concept 20
Command and Control
Raster data transfer test using 32
Command and control systems
Approach to Interfacing Data Bas 47
Commerce
Electronic Data Interchange 22
Implementation of Electronic Dat 6
Strategic Plan for Electronic Co 8
Commercial Aircraft
Process and Assembly Plans for L 24
Commercial Communications
Data Format Standardization with 3
Security Management of Electroni 7
Communication Equipment
Efficient Approach to Systems Ev 5
National Technical Report, Vol. 30
Communication Satellites
Iridium (Tm) System - Personal C 6
Communications
Modernization of Defense Logisti 23
Comparison
Comparison of ISO 10303 Part 47 9
Compensation
Data Format Standardization with 3
Competition
Use of Information and Manufactu 17
Complex Systems
Fuzzy Simulation in Concurrent E 12
Composite
PDES Application Protocol Suite 24
Composite Materials
Advanced Materials Aspects of Co 17
Composites - Materials of the Fu 9
Concurrent Engineering for Compo 20
Lessons Learned for Composite St 23
PDES Application Protocol Suite 15
Textiles and Composites '92. Sym 17
Composite Structures
Innovative Life Cycle Management 23
Lessons Learned for Composite St 23
Process and Assembly Plans for L 24
Compressed Air Energy Storage
Prefeasibility Study on Compress 24
Compression
COMPRS 46
Computational fluid dynamics
NASA-IGES Geometry Data Exchange 14
Computer Aided design
28-Entity IGES Test File Results 43
3D Piping IGES Application Proto 8, 26
A Technical Briefing on the Init 48
Apparel STEP Translator 18
Application Protocol for CAD to 1
Bidirectional Translator Between 26
CAD Product Data Exchange - Conv 18
CAD/CAM Product Data Standards, ... 27
CADCAM-005 - An Introduction to 43
CALS-Contractor Integrated Techn 19
CALS-Digital Representation for 1, 2, 19
CALS-HSC Data Element Dictionary 9
CALS-Raster Graphics Representat ... 1, 2, 19
CGM (Computer Graphics Metafile) 40
Challenges in Product Definition 40
Collection of Technical Studies 19, 40
Comparison of SDF (Standard Data 45
Computer-Aided Acquisition and L 20, 40
Computer-Aided Design for Built- 35, 36
Concurrent Engineering Technical 20
Concurrent Engineering. (Latest 1
Concurrent Life Cycle Analysis f 36
Design Evaluation for Personnel, ... 28
Design Knowledge Management Syst 10, 28
Digital Representation for Commu 28
DOE (Department of Energy) Data 41, 44
DOEDEF (Department of Energy Dat 41
DOEDEF KERNEL User's Guide. Vers 45
Draft Handbook of Concurrent Eng 11
Draft Report on Backfitting Prog 22
Enabling Technologies for Unifie 22
Engineering Data Integration - P 29
Engineering Drawing Transfer Tes 29
Evaluation Report on the Initial 48
Exchange Standards for Electroni 41
Feature Modelling and Conversion 11, 12
Fed-X - The NIST Express Transla 12
Final NBS (National Bureau of St 44
Graphic Standards—The Current S 45
Guidelines for the Specification 37
IGES (Initial Graphics Exchange 47
IGES 4.0 to LCAD Translator for 6
IGES Efficiency Evaluation 29
IGES Electrical Test - CADCAM-03 44
Ils, Ce, Cals du Concept a la Mi 23
Impact of IPAD (Integrated Progr 47
Initial Graphics Exchange
Specif 13, 41, 44, 47
Integration of Design, Thermal, ... 6
Interpretation of CAD (Computer 37
Introduction to the NIST PDES To 30
Investigation of IGES (Initial G 37
Investigation of IGES for CAD/CA 37
L'Ingenierie Concourante (Concur 23
MCM/Chip Concurrent Engineering 13
Military Specification. Digital 14
NASA-IGES Geometry Data Exchange 14
Navy CALS Vision. Draft 2.0. Vol 30
Neutral Format for HMA Manufactu 30
New 'Testbed' will Aid CAD/CAM, ... 37
NIST Express Working Form Progra ... 14, 31
NIST STEP Working Form Programme 31
NIST Step Working Form Programme 31
NIST Working Form for STEP. Nati 31
Nuclear Weapons Complex Departme 42
PDES Application Protocol Suite 15
Premieres Conclusions d'UN Group 24
Presentations at the Keynote Ses 24
Product Data Exchange - The PDES 38
RAMCAD (General Dynamics, San Di 15
Recreation of the 28-Entity IGES 44
Report of Mechanical Engineering 39
Requirements and Recommendations 16
Software Design Specification fo 16
Solid Modeling and IGES 47
Spline Transfer Through IGES - C 47
SPLPKG 47
Status Report for First Quarter, ... 16
Strategies for Implementing IGES 42
Technical Publication Transfer T 34
Technology for Manpower, Personn 8
Test Plan for Validating a Conte 26
Tolerance Model Version 2 for th 34
United States Air Force Computer 43
User's Guide for the Apparel STE 17
Validation Testing Laboratory Us 26
VMS Uses PDES to Integrate CAD/C 34
Computer Aided Engineering
Investigation of IGES for CAD/CA 37
United States Air Force Computer 43
Computer Aided Instruction
CALS Baseline Architecture Analy 35
Computer-Based Instructional Tec 10
Instructional Systems Developmen 30
Training Systems for Maintenance 34
Computer Aided Manufacturing
AMRF Part Model Extensions 34
CAD/CAM Product Data Standards, ... 27
CADCAM-005 - An Introduction to 43
CALS Industry Steering Group (IS 19
CGM (Computer Graphics Metafile) 40
CIM (Computer-Integrated Manufac 45
CIM - It All Starts with Product 45
Collection of Technical Studies 19, 40
Computer-Aided Acquisition and L 20
Conceptual Architecture for a Me 20
Concurrent Engineering Technical 20
Concurrent Engineering through P 20
Concurrent Engineering. (Latest 1
Configuration Management of the 20
DARPA DICE Manufacturing Optimiz 3
Design Knowledge Management Syst 28
Development Plan - Application P 21
Digital Representation for Commu 28
DOE (Department of Energy) Data 41, 44
DOEDEF KERNEL User's Guide. Vers 45
Draft Handbook of Concurrent Eng 11
Draft Report on Backfitting Prog 22
Effects on Weapon Systems' Produ 5
Evaluation Report on the Initial 48
Extending the Standard for the E 29

Index

Feature Modelling and Conversion 11
Fed-X - The NIST Express Transla 12
Final NBS (National Bureau of St 44
Generic Architecture for Compute 36
IDEF4 Object-Oriented Design Met 12
IGES (Initial Graphics Exchange 47
IGES Efficiency Evaluation 29
IGES Electrical Test - CADCAM-03 44
IGES/RIM Parser/Converter Users 46
Information Integration for Conc 13
Initial Graphics Exchange Specif 13, 41, 45, 47
Introduction to the NIST PDES To 30
Multi-Enterprise Concurrent Engi 23
Neutral Format for HMA Manufactu 30
New 'Testbed' will Aid CAD/CAM, ... 37
NIST Express Working Form Progra ... 14, 31
NIST PDES Toolkit - Technical Fu 14, 31
NIST STEP Working Form Programme 31
NIST Step Working Form Programme 31
NIST Working Form for STEP - Nat 31
NIST Working Form for STEP. Nati 31
Parser That Converts a Boundary 38
PDES (Product Data Exchange Stan 45
PDES Application Protocol Suite 15
Position of Sandia National Labo 38
Presentations at the Keynote Ses 24
Product Data Exchange Standard (..... 46
Product Definition Management - 44
Prototype Application Protocol f 7
QDES User's Guide. National PDES 32
Ramp Technology and Intelligent 15
Report of Mechanical Engineering 39
Report on Scoping the Apparel Ma 7
Requirements and Recommendations 16
Software and Computer Integrated 33
Software Design Specification fo 16
SQL3 Support for CALS Applicatio 25
Status Report for First Quarter, ... 16
STEP Production Cell Technical D 33
Strategic Plan for the Factory A 8
Technologiemodellierung Fuer Die 17
Test Plan for Validating a Conte 26
United States Air Force Computer 43
Use of GMAP (Geometric Modeling 39
Use of STEP in an Integrated Man 17
Validation Testing Laboratory Us 26
VMS Uses PDES to Integrate CAD/C 34

Computer Applications

Automated Logistics Support Anal 18
Briefing DTD User's Guide for th 26
CALS (Computer-Aided Acquisition 35
Collection of Technical Studies 40
Computer-Aided Acquisition And L 35
Data Management Standards in Com 28
Defense Logistics Agency Compute 36
Distributed Publishing of Electr 21
DLA Preprovisioning Prototype - 41
DOD Electronic Commerce (EC)/Ele 3
DSMC (Defense Systems Management 41
Electronic Commerce User Manual 11
Intelligent Automated Process Pl 1
NIST Support for the Computer-Ai 24
PDES Application Protocol Suite 15
Raster Data Transfer Test Using 32
Repair Level Analysis Software 25
SGML Lessons Learned for the Sof 33
SGML Product Review for the Soft 33
Technical Publication Transfer T 34

Computer Architecture

Architectural Guidelines for Mul 18
Computer-Aided Acquisition And L 35
Department of the Air Force CALS 21
Preliminary CALS Phase II Archit 38
Report of the Joint Industry - D 47
Submicron Systems Architecture P 33

Computer Communications

Assessment of DoD and Industry N 43
Business Case for Electronic Com 27
Change of Course - The Importanc 19
Computer-Aided Acquisition and L 20, 35
Digital Representation for Commu 28
DOD Implementation Guidelines fo 21
Doing Business with DOD Using El 5
Doing Business with DoD Using El 5
Electronic Data Interchange 22
Electronic Transfer of Informati 29
Empirical Study of Logistics Org 5
Implementation of Electronic Dat 6
Issues in Open EDI 13
Publishing Standard Allows for t 38
Research and Development Strateg 16
Security Management of Electroni 7

Computer Files

After Ten Years of Metafiles - W 43
Computer-Aided Acquisition and L 40
Development of Data File Standar 21
Evaluation Report on the Initial 48
NIST Working Form for STEP. Nati 31
Tiled Raster Graphics and MIL-R- 26

Computer Gateways

Technical Support Task Report fo 26

Computer Graphics

28-Entity IGES Test File Results 43
After Ten Years of Metafiles - W 43
Analysis of Three-Dimensional Sp 46
Boundary Integral Technique for 43
CADCAM-005 - An Introduction to 43
CALS-Digital Representation for 1, 2, 19
CALS-Raster Graphics Representat ... 1, 2, 19
CGVU - A CGM Viewer and Editor R 19
Collection of Technical Studies 20
COMPRS 46
Computer Graphics Metafile (CGM) 2, 45
Computer Graphics Standards. (La 3
DOE DEF RIM-To-IGES. File Writer 45
Feature Modelling and Conversion 11
Final NBS (National Bureau of St 44
Generic Architecture for Compute 36
Graphic Standards—The Current S 45
Graphics Application Programmer' 37
Graphics Standards in the Comput 29
IGES (Initial Graphics Exchange 47
IGES/RIM Parser & Converter 46
Incorporating CALS Requirements 12
Initial Graphics Exchange Specif 13, 44, 45, 47
Interactive Interface for Nation 13
Introduction to Graphical User I 13
Investigation of IGES (Initial G 37
Making IGES Work for CAD/CAM Dat 46
NIST Support for the Computer-Ai 24
Raster Graphics Conformance Test 25
Recreation of the 28-Entity IGES 44
Reference Guide for IGVIEW, an I 44
Reference Guide for Using IGVIEW 46
Second Generation Computer Graph 39
SGML in Practice - The PHIGS Sli 16
Solid Modeling and IGES 47
Use of GKS (Graphical Kernal Sys 39

Computer Graphics Metafile

Computer Graphics Metafile (CGM) 2, 35

Computer Graphics Software

Computer Graphics Metafile (CGM) 35

Computer Information Security

Compendium of Occasional Papers 9

Computer Integrated Manufacturing

Generic Architecture for Compute 36
Status of PDES-Related Activitie 33

Computer Networks

CALS (Computer-Aided Acquisition 35
CALS Test Network MIL-D-28000 Cl 35
DOD Implementation Guidelines fo 21
Electronic Delivery of Automated 36
Engineering drawing transfer tes 36
IGES Data Exchange Between Dissi 48
Implementation of Electronic Dat 6
Information Resources Management 41
Making IGES Work for CAD/CAM Dat 46
Technical Publication Transfer T 26, 33
U.S. GOSIP - The Challenge Ahead 34

Computer Program Verification

Detailed Design Specification fo 3
Initial Graphics Exchange Specif 47
Simulation-Based Approach to Tes 16

Computer Programming

Concurrency Control in Rule-Base 10
Documentation Preparation Under 41
Interpretation of CAD (Computer 37
Structured Analysis for the Logi 39

Computer Security

Collection of Technical Studies 27
OSD CALS Architecture Master Pla 38
Workshop on Security Procedures 8

Computer Software

Industry Sector Analysis, Canada 6
Information Resources Management 41
Overview of the IGES/PDES Testin 38
Software and Computer Integrated 33

Computer Storage Management

COMPRS 46

Computer Systems Design

Ramp Technology and Intelligent 15

Computer Systems Programs

Architecture for the Validation 18
Validation Testing System - Reus 17

Computer-Aided Acquisition and Logistic Supp
Computer-Aided Acquisition and L 9
Computer-Aided Acquisition and L 35
How CALS Can Improve the DOD Wea ... 12
Raster Graphics Conformance Test 25
Standard Generalized Markup Lang 25
Computer-Aided Design
Guidelines for the Transfer of A 22, 29
IGES Data Exchange Between Dissi 48
IGES/RIM Parser/Converter Users 46
Computer-Aided Manufacturing
Feature-Based Tolerancing for in 6
Computerized Simulation
Assessment of the ModSim/TWOS pa 18
Computerized Simulation
Computational Simulation for Con 2
Computer Simulation Analysis of 20
Control System Software, Simulat 21
Effects on Weapon Systems' Produ 5
Evaluation of Automated Decision 45
Feature Modelling and Conversion 11
Computers
Efficient Approach to Systems Ev 5
National Technical Report, Vol. 30
Technical Publication Transfer T 34
Concurrent Engineering
Advanced Materials Aspects of Co 17
Annotated Reading List for Concu 34
Applications of Concurrent Engin 34
CALS/CE Bulletin Board User Guid 2, 9
CALS/CE Government and Industry 2
CALS/CE Industry Steering Group 9
Catalog of Training and Educatio 35
Charter of the CALS-CE Industry 9
CIRP International Workshop on C 9
Concurrency Control in Rule-Base 10
Concurrent Engineering - A New P 20
Concurrent Engineering for Compo 20
Concurrent Engineering Teams. Vo 27
Concurrent Engineering through P 20
Concurrent Engineering. (Latest 1
DARPA Initiative in Concurrent E 10, 27
Decision Support Environment for 21
Description of CE Technology for 10
Examination of Various Methods U 29
Feature Modelling and Conversion 11, 12
First Principles of Concurrent E 22
Framework for Concurrent Enginee 22
Fuzzy Simulation in Concurrent E 12
IDEF4 Object-Oriented Design Met 12
Ils, Ce, Cals du Concept a la Mi 23
Information Integration for Conc 13
Innovative Life Cycle Management 23
Integration of R and M into the 42
Intelligent Automated Process Pl 1
International Workshop on Concur 13
Investigation of Integrated Prod 6
L'Ingenierie Concourante (Concur 23
MCM/Chip Concurrent Engineering 13
Multi-Enterprise Concurrent Engi 23
Open Architecture for Electronic 24
Presentations at the Institute f 38
RAMCAD (General Dynamics, San Di 15
Relationship between CALS and Co 32
Relationship Between Computer-Ai 39
Role of Concurrent Engineering i 42
Software Design Specification fo 16
Symbolic Model Checking. An Appr 17
Tinkertoy (Trade Name) Transactio 8
Use of STEP in an integrated man 17
Configuration Management
Development Plan Configuration M 28
IGES/PDES Organization Document 23
OSD CALS Architecture Master Pla 37
Conformance Testing
Development Plan - STEP Conforma 21
Requirements and Recommendations 16
Contract Administration
CALS-Contractor Integrated Techn 19
Electronic Commerce Program for 22
Electronic Commerce Removing Reg 11
Electronic Data Interchange in U 11
Greater Buyer Effectiveness thro 37
Maximization of Automatic Paymen 23
Program Manager - Journal of the 25
Structured Analysis of the Logis 43
Contract Management
NASA Procurement - Planning for 7
Contractors
Draft Military Specification - M 22
Engineering Information System (..... 11
Government/Contractor Developmen 6
Contracts
Electronic Payment in DOD Contra 5
Final NBS (National Bureau of St 44
Maximization of Automatic Paymen 23
Controllers
Development Plan - Step Producti 28
Cost analysis
Benefit Analysis Report, United 35
Concurrent Life Cycle Analysis f 36
Cost Considerations of an Integr 36
PDES Application Protocol Suite 15
Process and Assembly Plans for L 24
Structured Analysis for the Logi 39
Cost Engineering
Department of Defense Corporate 21
Costs
Proceedings of the Advance Plann 15
COTS (Commercial Off The Shelf)
TRW CALS COTS Product Guide, Sec 17
CT (Conformance Testing)
Requirements and Recommendations 16
CTN (CALS Test Network)
CALS Test Network Handbook, July 19
Technical Publication Transfer T .. 26, 33, 34
Curriculum Development
CALS Training Criteria Formulate 27

D

Damage Assessment
Post-Dam System. Volume 2. Post- 15
DAP (Document Application Profile)
Raster Graphics - A Tutorial and 7
Data
Neutral Format for HMA Manufactu 30
Product Data Exchange - The PDES 38
Product Data Exchange Specificat 42
Data Acquisition
CALS Database Usage and Analysis 19
CALS-Department of Defense Acqui 19
Computer-aided Acquisition and L 9
Data Format Standardization with 3
Incentives and Funding Mechanism 30
Premieres Conclusions d'UN Group 24
Software Product Data (SPD) Curr 33
Data Acquisition Systems
CALS Test Network MIL-D-28000 Cl 27
Data Base Management
IGES/RIM Parser/Converter Users 46
Product Definition Management 44
Text Encoding for Retrieving Sci 26
Data Base Management Systems
Database Management Systems in E 10
SQL3 Support for CALS Applicatio 25
Use of the IRDS Standard in CALS 40
Data Bases
Approach to Interfacing Data Bas 47
CALS Database Usage and Analysis 19
Content Data Model 3
Content Data Model - Technical S 27
Data Model Development and Valid 28
Design Knowledge Management Syst 10
Draft Military Specification - M 21
Engineering Data Integration - P 29
Entwurf Eines Modells der Verarb 11
IGES/PDES Organization Document 23
Impact of IPAD (Integrated Progr 47
Investigation of IGES (Initial G 37
Investigation of IGES for CAD/CA 37
Military Specification. Data Bas 14
OSD CALS Architecture Master Pla 37
PDES Application Protocol Suite 15
Planning Model for Unifying Info 31
Proposed Draft Military Specific 32
Ramp Technology and Intelligent 15
Report to the Committees on Appr 45
STELAR - An Experiment in the El 16
Using Object-Oriented Databases 17
Data Compilation
Text encoding for retrieving sci 26
Data Conversion
CAD Product Data Exchange - Conv 18
Data Converters
Guidelines for the Specification 37
Data Dictionaries
CALS-HSC Data Element Dictionary 9
Data Object Classification - A N 10
Framework for Developing a CALS 29
Information Resource Dictionary 41

Index

Integration of the Air Force Con 30
OSD CALS Architecture Master Pla 37, 38
Data Displays
IGES (Initial Graphics Exchange 47
Data Encryption
PDES 46
Data Exchange
CAD Product Data Exchange - Conv 18
DOE (Department of Energy) Data 44
Data File
CALS Mailing List (for Microcomp 8
Data Interchange
Initial Graphics Exchange Specif 45, 47
Military Specification - Digital 13
Military Standard - Automated In 14
Data Links
Empirical Study of Logistics Org 5
Data Management
AMRF Part Model Extensions 34
CALS Baseline Architecture Analy 35
CALS Infrastructure Analysis. Dr 27
Collection of Technical Studies 27
Data Management Standards in Com 28
Database Language SQL - Integrat 10
EDI's Role in a Strategy for Dig 29
Electronic Data Interchange in P 29
Electronic Future for Defense Tr 41
Impact of IPAD (Integrated Progr 47
Improving Supply Management - Th 12
Information Technology - A Force 13
Modernization of Defense Logisti 23
PDES Application Protocol Suite 15
Report to the Committees on Appr 45
Software Product Data (SPD) Curr 33
Structured Analysis and Structur 25
Data Management Systems
Guide for Specifying and Buildin 12
Use of the IRDS (Information Res 40
Data Probe Computer Program
Data Probe User's Guide. Nationa 3
Data Processing
Automated Carrier Interface Proj 46
Computer Graphics Metafile (CGM) 2, 3
Conceptual Architecture for a Me 20
Defense Commissary Agency - A Bu 3
Entwurf Eines Modells der Verarb 11
Information Resources Management 23
NIST Step Working Form Programme 31
Open Document Processing and the 24
Processing SGML Documents 32
Data Processing Security
Assessing Federal and Commercial 8
Compendium of Occasional Papers 9
Computer-Aided Acquisition and L 20
Datamaerkning - Att Paketera Iho 28
Defense Logistics Agency Compute 36
OSD CALS Architecture Master Pla 37
PDES 46
Security Management of Electroni 7
Data Protection
Compendium of Occasional Papers 9
Data Storage Devices
Comparison of CDJTT Group 4 Comp 40
Data Storage Systems
Content Data Model 3
Data Structures
Data Model for the PDES, Inc., C 28
Data Model for the PDES, Inc. Co 28
Geometry Model, Version 1A for t 36
Geometry Model Version 1B for th 36
Integrated Document, Version 2 f 37
Product Shape Interface Model fo 38
Product Structure Configuration 32
Structured Documents - Concepts 33
Test Report for Context Driven I 34
Topology Model Version 1A for th 39
Data Tagging
Text Standard Generalized Markup 46
Data Transfer (Computers)
Avoin EDI (Open EDI) 8
Digital Representation for Commu 28
Enhanced Evaluation, Selection a 11
Engineering Data Integration - P 29
Incorporating CALS Requirements 12
Industry Sector Analysis, Hong K 6
Prototype Application Protocol f 7
Data Transformation
Considerations for the Transform 10
Data Transmission
Application Protocol for CAD to 1
Avoin EDI (Open EDI) 8
Bidirectional Translator Between 26
Challenges in Product Definition 40
Comparison of SDF (Standard Data 45
Computer-Aided Acquisition And L 35
DOE (Department of Energy) Data 41, 44
Electronic Data Interchange (EDI 5, 22
Electronic Data Interchange in M 22
Electronic Data Interchange Soft 5
Electronic Data Interchange. (La 11
IGES (Initial Graphic Exchange S 46
Nuclear Weapons Complex Departme 42
Report of Mechanical Engineering 39
Data Transmission Systems
CALS Test Network MIL-D-28003 CG 19
CALS Test Network Sacramento Air 9
CTN summary of DSREDS, EDCARS, E 10
DOD Electronic Data Interchange 5
Engineering data transfer test w 11
Engineering Data TransferTest wi 11
Implementing Electronic Data Int 6
Raster Data Transfer Test Using 15
Raster data transfer test using 32
Strategic Plan for Electronic Co 8
Technical publication transfer t 34
Transmission of Technical Inform 39
Database Management Systems
Content Data Model - Technical S 27
DDE (Digital Data Exchange)
EDI's Role in a Strategy for Dig 29
Decision Making
Evaluation of Automated Decision 45
Decision Support Systems
Achieving A System Operational A 8, 17
Computer-Aided Acquisition and L 9
Decision Support Environment for 21
Information Technology - A Force 13
Instructional Systems Developmen 30
Defense Commissary Agency
Defense Commissary Agency - A Bu 3
Defense Planning
Program Manager - Journal of the 25
Defense Systems
CGM (Computer Graphics Metafile) 40
Collection of Technical Studies 40
Computer-Aided Acquisition and L 9
DSMC (Defense Systems Management 41
Department of Defense
Annotated Reading List for Concu 34
CALS Infrastructure Analysis. Dr 27
Data Format Standardization with 3
Department of Defense Corporate 21
DOD Electronic Data Interchange ... 4, 5, 10
DoD Electronic Data Interchange 5
DOD Implementation Guidelines fo 21
DoD's Technical Information Publ 21
Electronic Data Interchange Oppo 11
Forging a Partnership through ED 12
How CALS Can Improve the DOD Wea ... 12
Implementation of Electronic Dat 6
Joint DoD/Industry Study on Oppo 30
Paperless Material Inspection an 24
Quality Philosophy for Integrate 25
Report to the Committee on Appro 42
Technical Assessment of the Rese 17
Using Electronic Data Interchang 8
Deployment
Demonstration of Interfaces betw 41
Design Analysis
Advanced Life Support Study. Mod 1
Concurrent Engineering in Design 20
Integration of Design, Thermal, ... 6
Process and Assembly Plans for L 24
Systems Design Analysis Applied 8
Design Criteria
3D Piping IGES Application Proto 26
Design To Cost
Process and Assembly Plans for L 24
Digital Computers
Implementing Electronic Data Int 6
Digital Data
CALS Standards Overview 19
Enhanced Evaluation, Selection a 11
Military Specification - Digital 13
Product Definition Data Standard 45
Digital Filters
Concurrent Architectures for VLS 3
Digital Recording Systems
Computer-Aided Acquisition and L 40
Development of Data File Standar 21
Digital Representation for Communication of
Military Specification - Digital 13

Digital System
Military Specification - Digital 42
Digital Technical Information
Report to the Committee on Appro 42
Dimensional Measurement
Dimensional Inspection Planning 3
Tolerance Model Version 2 for th 34
Direct Engineering
Concurrent Engineering. (Latest 1
Directories
Guide to EDI Translation Softwar 22
Distributed Computer Systems
Datamaerkning - Att Paketera Iho 28
Distributed Data Processing
Approach to Interfacing Data Bas 47
Distributed Publishing
Distributed publishing of electr 21
DMIS (Dimensional Measuring Interface Standar
Dimensional Inspection Planning 3
Document Retrieval
Computer Aided Acquisition and L 27
Document Types
Architectural Relationships betw 47
Documentation
CALS Test Network MIL-D-28000 Cl 27
Computer Aided Acquisition and L 27
Entwurf Eines Modells der Verarb 11
Next Generation Documents 14
Standard Generalized Markup Lang 33
Documents
Briefing DTD User's Guide for th 26
Defense Commissary Agency - A Bu 3
DTD Creation for the Software Te 29
Electronic Data Interchange 22
Entwurf Eines Modells der Verarb 11
Implementing Electronic Data Int 6
Interchangeability of SGML and O 13
Open Document Processing and the 24
Processing SGML Documents 32
Publishing Standard Allows for t 38
Qwertz SGML Document Types. Vers 25
Security Management of Electroni 7
SGML DTD for the STEP Integrated 7
SGML Encoding for Technical Repor 16
SGML Lessons Learned for the Sof 33
SGML Product Review for the Soft 33
Standard Generalized Markup Lang 25
Structured Documents - Concepts 33
Drafting (Drawing)
Strategies for Implementing IGES 42
Dream Computer Program
DREAM 2.0. User Manual 11
DSSSL (Document Style Semantics and Specifica
Overview of the Document Style S 14
DTD (Document Type Definition)
SGML DTD for the STEP Integrated 7

E

E Codes
Engineering data transfer test w 11
Economic Analysis
Business Case for Electronic Com 27
EDI (Electronic Data Exchange)
Electronic Data Interchange (EDI 5
EDI (Electronic Data Interchange)
DOD Electronic Data
Interchange 4, 5, 10, 11
EDI's Role in a Strategy for Dig 29
Electronic Exchange of Transport 46
Electronic Future for Defense Tr 41
Empirical Study of Logistics Org 5
Forging a Partnership through ED 12
Industry Sector Analysis, Canada 6
Industry Sector Analysis, Hong K 6
Issues in Open EDI 13
Promoting Freight Carrier EDI Pa 7
Results of the Work of the Inter 25
Transforming Cross-Industry Prac 26
Using Electronic Data Interchang 8
Workshop on Security Procedures 8
EDI (Electronic Data Interchange) Convention
DOD Electronic Data Interchange 4
EDI (Electronic Data Intercharge)
Defense Commissary Agency - A Bu 3
DOD Electronic Data Interchange 10
Editing
QDES Administrative Guide - Nati 32
QDES User's Guide. National PDES 32
Education
Annual CALS Supplier Forum (2nd) 17
Catalog of Training and Educatio 35
Navy Acquisition Streamlining Co 44
Efficient Approach To Systems Evolution
Efficient Approach to Systems Ev 5
Electromagnetic Environments
Electronic Data Interchange in D 44
Electronic Bulletin Boards
CALS/CE Bulletin Board User Guid 2, 9
Electronic Commerce
Electronic Commerce and Competit 22
Electronic Commerce Removing Reg 11
Electronic Data Interchange (EDI 22
Electronic Control
Avoin EDI (Open EDI) 8
Electronic data interchange
Canadian participation in the de 19
Electronic Data Interchange (EDI 22
Electronic Data Interchange Soft 5
Electronic Data Interchange. (La 11
Implementation of Electronic Dat 6
Implementing Electronic Data Int 6
Internal Control in an EDI Envir 23
Port infonmation systems around 32
Electronic Data Interchanges
Development of an Electronic Dat 48
Electronic Equipment
Electronic Future for Defense Tr 41
Proposed Draft Military Specific 32
Electronic Funds Transfer
Electronic Payment in DOD Contra 5
Implementation of Electronic Fun 12
Electronic Mail
Computer Simulation Analysis of 20
DOD Electronic Commerce (EC)/Ele 3
DOD Electronic Data Interchange 4, 5
DoD Electronic Data Interchange 5
Doing Business with DOD Using El 5
Electronic Commerce Program for 22
Electronic Data Interchange in M 22
Electronic Data Interchange Oppo 11
Empirical Study of Logistics Org 5
Multimedia Electronic Mail - Sta 14
National PDES Testbed Mail Serve 24
Promoting Freight Carrier EDI Pa 7
Electronic Erinted Output
Military Specification - Markup 23, 30
Electronic Publishing
Government Document Processing R 22
Hypermedia Presentation Composer 12
Implementation of OLTRS within D 23
Individualized Electronic Newspa 12
Qwertz SGML Document Types. Vers 25
Electronic Recording Systems
Electronic Commerce Program for 22
Paperless Material Inspection an 24
Electronic Solicitations
Electronic Commerce and Competit 22
Electronics
Application Protocol for CAD to 1
DARPA Initiative in Concurrent E 10
Open Architecture for Electronic 24
Strategic Plan for Electronic Co 8
Electronics Industry
First Principles of Concurrent E 22
Embedded Systems
Simulation-Based Approach to Tes 16
Engineering
Database Management Systems in E 10
Industrial Insights on the DoD C 41
Initiative in Concurrent Enginee 30
Engineering Drawings
28-Entity IGES Test File Results 43
CALS Test Network MIL-D-28000 Cl 35
DOE (Department of Energy) Data 41
Engineering Drawing Transfer Tes 36
Feature Modelling and Conversion 11
Engineering Management
L'Ingenierie Concourante (Concur 23
Engineering Personnel
Text encoding for retrieving sci 26
Engineers
Engineering Information System 11
Environmental Control
Advanced Life Support Study. Mod 1
Europe
NIAG Report on the Applicability 24

European Fighter Aircraft
Potential Improvements in the Lo 24
Evolution (Development)
United States Air Force Computer 43
Exchange
Development Plan Configuration M 28
Expert Systems
Post-Dam System. Volume 2. Post- 15
Ramp Technology and Intelligent 15
Export Trade Information
Industry Sector Analysis, Canada 6
Industry Sector Analysis, Hong K 6
EXPRESS
Expp - An EXPRESS Pretty Printer 6
EXPRESS Information Modelling Language
Considerations for the Transform 10
EXPRESS Programming Language
Fed-X - The NIST Express Transla 29
NIST EXPRESS Toolkit - Lessons L 14
Translating Express to SQL - A U 34

F

Fabrication
Integration of Rapid Prototyping 6
Facsimile Communication
Iridium (Tm) System - Personal C 6
Feature Extraction
Feature Modelling and Conversion 12
Federal Acquistion Regulation
Electronic Commerce Removing Reg 11
Federal Government
Information Resources Management 41
Federal Information Processing Standard
Computer Graphics Metafile (CGM) 45
Computer-Aided Acquisition and L 35
Electronic Data Interchange (EDI 5
Electronic Data Interchange (EDI 22
Initial Graphics Exchange Specif 13
PDES 46
Publishing Standard Allows for t 38
Reference Implementation for SGM 44
Standard Generalized Markup Lang 42
Fedex Sql Computer Program
Translating Express to SQL - A U 34
File Maintenance
Initial Graphics Exchange Specif 45, 47
Transformr - A Prototype STEP Ex 17
File Management Systems
Configuration Management Concept 20
Finance Management
Electronic Commerce Program for 22
Financial Management
Implementation of Electronic Fun 12
Foreign Broadcast Information Service
Science and Technology Perspecti 7
Foreign Countries
NATO Industry Advisory Group Rep 14
Foreign Marketing
Industry Sector Analysis, Canada 6
Industry Sector Analysis, Hong K 6
Foreign Technology
Avoin EDI (Open EDI) 8
Canadian participation in the de 19
Changing Nature of Design 9
Computer-Aided Acquisition and L 9
Concurrent Engineering in Design 20
Data Communication Networks Mess 21
Datamaerkning - Att Paketera Iho 28
Distributed Publishing of Electr 21
Distributed publishing of electr 21
Distribution of information - Ho 3
DREAM 2.0. User Manual 11
Electronic Transfer of Informati 29
Engineering Data Integration - P 29
Entwurf Eines Modells der Verarb 11
Feature Modelling and Conversion 11, 12
Fuzzy Simulation in Concurrent E 12
Hypermedia Presentation Composer 12
Ils, Ce, Cals du Concept a la Mi 23
Implementation of OLTRS within D 23
Individualized Electronic Newspa 12
Issues in Open EDI 13
L'Ingenierie Concourante (Concur 23
National Technical Report, Vol. 30
NATO Industry Advisory Group Rep 14
Open Document Processing and the 24
Port information systems around 32
Prefeasibility study on compress 24
Premieres Conclusions d'UN Group 24
Processing SGML Documents 32
Qwertz SGML Document Types. Vers 25
Report of Mechanical Engineering 39
Results of the Work of the Inter 25
Science and Technology Perspecti 7
Second Generation Computer Graph 39
SGML in Practice - The PHIGS Sli 16
SGML Tables for the PHIGS Slide 8
Simulation-Based Approach to Tes 16
Structured Documents - Concepts 33
Technologiemodellierung fuer die 17
Telegraph and Mobile Services. M 26
Textiles and Composites '92. Sym 17
Transforming Cross-Industry Prac 26
Format
Military Specification. Manuals, ... 14
Formats
Data Format Standardization with 3
DOD Electronic Data Interchange 4, 10
Military Specification - Digital 42
Tiled Raster Graphics and MIL-R- 26
Forms (Paper)
Paperless Material Inspection an 24
Freight Carriers
Doing Business With DOD Using El 5
Functional Models
Integration of rapid prototyping 6
Fuselages
Process and Assembly Plans for L 24
Fuzzy Systems
Fuzzy Simulation in Concurrent E 12

G

Geometry
28-Entity IGES Test File Results 43
Geometry Model, Version 1A for t 36
Geometry Model Version 1B for th 36
Recreation of the 28-Entity IGES 44
GOSIP
U.S. GOSIP - The Challenge Ahead 34
GOSIP (Government OSI Profile)
Computer-Aided Acquisition and L 35
Government Procurement
Electronic Data Interchange in P 29
Forging a Partnership through ED 12
NASA Procurement - Planning for 7
Government/Industry Relations
CALS/CE Government and Industry 2
Charter of the CALS-CE Industry 9
Government/Contractor Developmen 6
Joint CALS-CE Industry-Governmen 23
Graphics
Military Specification - Digital 42
Grid Generation (Mathematics)
NASA-IGES Geometry Data Exchange 14
Guided Missiles
Design for Producibility. A Desi 28

H

Handbooks
Military Handbook - Computer-Aid 30
Heat Transmission
Integration of Design, Thermal, ... 6
High Level Languages
Standard Generalized Markup Lang 42
Hong Kong
Industry Sector Analysis, Hong K 6
Human Factors Engineering
Briefing to Address Liveware Int 2
CALS-HSC Data Element Dictionary 9
Design Evaluation for Personnel, ... 28
Poet Revealed - A Future for Hum 32
Research and Development Strateg 16
Technology for Manpower, Personn 8
Hypermedia
Emerging Hypermedia Standards - 22
Hypermedia Presentation Composer 12
Hypertext
Individualized Electronic Newspa 12

I

IDEF
CALS EXPO '92 - IDEF Modeling. A 8
IETM (Interactive Electronic Technical Manual
Draft Military Specification - M 21, 22
IETMs (Interactive Electronic Technical Manua
Military Specification. Data Bas 14
Military Specification. Manuals, ... 14
Military Specification. Quality 14

IGES (Initial Graphics Exchange Specification
3D Piping IGES Application Proto 8
CALS-Digital Representation for..... 1, 2, 19
IGES/PDES Organization Document 23
Initial Graphics Exchange Specif 6, 13
Investigation of IGES for CAD/CA 37
Military Specification - Digital 13
Military Specification. Digital 14
Indexes
OSD CALS Architecture Master Pla 37
Industrial Management
Ils, Ce, Cals du Concept a la Mi..... 23
Industrial Plants
Technical Program of the Factory..... 17
Industrial Production
Design for Producibility. A Desi 28
Industries
Best Value Acquisition Symposium..... 2
CALS-CE Industry Steering Group 9
NATO Industry Advisory Group Rep..... 14
Perspectives, Key Themes, and Re 42
Proceedings of the 'Managing the 32
Transforming Cross-Industry Prac..... 26
Industry
Report of the Joint Industry - D 46, 47
Information Dissemination
Baseline Architecture Analysis o 34, 35
CALS Architecture Study. Report..... 18
STELAR - An Experiment in the El..... 16
Information Distribution
Distribution of information - Ho 3
Information Exchange
Approach to Interfacing Data Bas 47
Business Case for Electronic Com 27
Computer Simulation Analysis of..... 20
Computer-Aided Acquisition and L 20
Considerations for the Developme 36
Data Exchange Strategy. Part 1. 36
Development of Data File Standar..... 21
Digital Representation for Commu 28
DOD Electronic Data Interchange 4, 5, 10, 11
DoD Electronic Data Interchange 5
DOD Implementation Guidelines fo 21
Doing Business with DOD Using El 5
DTD Creation for the Software Te 29
Electronic Data Interchange 22
Electronic Data Interchange in D..... 44
Electronic Data Interchange Oppo 11
Electronic Data Interchange Prot 11
Electronic Future for Defense Tr..... 41
Engineering Information System..... 11
Evaluation Report on the Initial 48
Exchange Standards for Electroni 41
IGES 4.0 to LCAD Translator for 6
Implementing Electronic Data Int..... 6
Information Technology - A Force 13
Initial Graphics Exchange Specif 13
OSD CALS Architecture Master Pla 37
Paperless Material Inspection an 24
Security Management of Electroni 7
STEP Production Cell Technical D..... 33
Strategic, Organizational and St 44
Technical Publication Transfer T 26, 33
Tiled Raster Graphics and MIL-R- 26
Information Flow
Information Logistics - A Produc 23
Information Management
Application Protocol for CAD to..... 1
CALS Information Technology Brie 2
Information Logistics - A Produc 23
Information Resource Dictionary..... 41
Information Modeling
Planning Model for Unifying Info..... 31
Information Models
Validation Testing System - Reus 17
Information Processing
Development Plan Configuration M 28
Standard Generalized Markup Lang 25
Structured Analysis for the Logi 39
United States Air Force Computer 44
Information Retrieval
Computer Aided Acquisition and L 27
Overview of the Product Data Hyp 31
SGML Encoding for Technical Repor..... 16
Standard Generalized Markup Lang 33
Information Services
CALS-Contractor Integrated Techn 1, 2, 9, 19
Implementation of OLTRS within D 23
Military Standards for CITIS - P..... 14
STEP On-Line Information Service 25
Information Systems
Application Protocol for CAD to..... 1
Automated Carrier Interface Proj 46
CALS Test Network MIL-D-28000 Cl 35
Considerations for the Developme 36
Content Data Model (CDM) and Imp 36
Content Data Model - Technical S 27
Data Management Standards in Com 28
Demonstration of Interfaces Betw 41
DOD Electronic Data Interchange 4, 5
DOE (Department of Energy) Data 44
EDI's Role in a Strategy for Dig 29
Electronic Data Interchange - Bu..... 1, 5
Electronic Delivery of Automated..... 36
Electronic Exchange of Transport 46
Engineering Data Integration - P 29
Engineering Data transfer test w..... 11
Engineering Drawing Transfer Tes 36
Information Resources Management 23
Lockheed Aeronautical Systems Co 42
Overview of the Product Data Hyp 31
Product Definition Initiative in..... 42
Publishing Systems Structured Te 39
Raster Data transfer Test Using..... 32
Standard Generalized Markup Lang 42
STELAR - An Experiment in the El..... 16
Strategic, Organizational and St 44
Use of the IRDS (Information Res 40
Use of the IRDS Standard in CALS..... 40
Information Technology
Information Resources Management 41
Information Technology Vision fo 13
Information Transfer
Application Protocol for CAD to..... 1
Change of Course - The Importanc 19
Electronic Transfer of Informati 29
Investigation of IGES for CAD/CA 37
Initial Graphics Exchange Specification
Guidelines for the Specification..... 37
Interpretation of CAD (Computer 37
Input Output Routines
NIST Step Class Library (Step in 31
Inspection
Dimensional Inspection Planning..... 3
Feature-Based Tolerancing for In 6
Intelligent Automated Process Pl 1
Institute for Defense Analyses
Presentations at the Institute f..... 38
Instruction Manuals
Proposed Draft Military Specific 32
Integrated Diagnostics
Joint DoD/Industry Study on Oppo 30
Integrated Systems
Design Knowledge Management Syst 10
Integrated Information Support S 30
Integration of R and M into the 42
Integration of the Air Force Con..... 30
Strategic, Organizational and St 44
Integration
Architectural Guidelines for Mul 18
Interactive Graphics
A Technical Briefing on the Init..... 48
Computer Graphics Standards. (La 3
Graphic Standards—The Current S..... 45
Interactive Interface for Nation 13
Interactive Manuals
Using Object-Oriented Databases 17
Interchange
Interchangeability of SGML and O 13
Interfaces
Computer-Aided Acquisition and L 9
NIST Working Form for STEP. Nati 31
U.S. Joint Service Systems Appro..... 34
Internal Control
Internal Control in an EDI Envir..... 23
International Cooperation
Ils, Ce, Cals du Concept a la Mi..... 23
Premieres Conclusions d'UN Group 24
International Trade
Industry Sector Analysis, Hong K 6
Port Information Systems Around 32
Inventories
Ramp Technology and Intelligent..... 15
Inventory Control
Industry Sector Analysis, Hong K 6
Inventory Controls
Ramp Technology and Intelligent..... 15
Release and Installation Notes f..... 16
Inventory Management
Information Logistics - A Produc 23

Index

IPD (Integraded Product Development)
Investigation of Integrated Prod 6
IRDS (Information Resource Dictionary System)
Use of the IRDS Standard in CALS 40
Iridium System
Iridium (Tm) System - Personal C 6
ISG (Industry Steering Group)
Charter of the CALS-CE Industry 9
Computer-Aided Acquisition and L 35
ISO (International Organization for Standardi
Results of the Work of the Inter 25
IT (Information Technology)
Assessing Federal and Commercial 8

J

JCALS
Technical Assessment of the Rese 17
Jet Fighters
Investigation of Integrated Prod 6
Joint Military Activities
U.S. Joint Service Systems Appro 34
Joint Ventures
Report of the Joint Industry - D 46, 47

K

Knowledge Based Systems
Design Knowledge Management Syst 10
Knowledge Representation
Design Knowledge Management Syst 28

L

Labels
Text Standard Generalized Markup 46
Laboratories
Raster Graphics Conformance Test 25
Land Transportation
Doing Business with DOD Using El 5
Large Space Structures
Multidisciplinary Modeling and D 30
Launch Vehicle Configurations
Systems Design Analysis Applied 8
Launch Vehicles
Concurrent Life Cycle Analysis f 36
Systems Design Analysis Applied 8
Legal Aspects
Report on the Potential Legal Is 16
Lessons Learned
Lessons Learned for Composite St 23
Libraries
Interactive Interface for Nation 13
Life Cycle Costs
Concurrent Life Cycle Analysis f 36
Life Cycles
PDES Application Protocol Suite 15
Sample Tailoring of 2167A DIDS f 32
Life Support Systems
Advanced Life Support Study. Mod 1
Life (Durability)
Innovative Life Cycle Management 23
Logistic Support
CGM (Computer Graphics Metafile) 40
Collection of Technical Studies 40
Logistic Support Analysis
Structured Analysis - review of 33
Structured Analysis of the Logis 42
Logistics
CALS EXPO '88. 'Quality and Prod 40
CALS EXPO '89. 'CALS Impact - A 35
Comparison of CDJTT Group 4 Comp 40
Electronic Data Interchange (EDI 22
Electronic Exchange of Transport 46
Final NBS (National Bureau of St 44
Incentives and Funding Mechanism 30
Information Logistics - A Produc 23
Military Specification - Digital 23
Poet Revealed - A Future for Hum 32
Production and Logistics Strateg 38
Relationship Between CALS and Co 32
Report on Standards and Specific 47
Report to the Committees on Appr 45
Structured Analysis and Structur 33
Logistics Management
Air Force CALS Business Practice 1
Air Force Tech Order Management 40
Annual Technical Symposium (28th 18
Benefit Analysis Report, United 35
CALS-Department of Defense Compu 1, 2, 19
Change of Course - The Importanc 19
Computer-Aided Acquisition and L 9
Computer-aided Acquisition and L 9
DOD Electronic Data Interchange 4, 11
DSMC (Defense Systems Management 41
Electronic Data Interchange in P 29
Electronic Data Interchange Prot 11
Implementation of Electronic Fun 12
Modernization of Defense Logisti 23
Paperless Procurement - The Impa 14
Perspectives, Key Themes, and Re 42
Presentations at CALS Conference 42
Promoting Freight Carrier EDI Pa 7
Research and Development Strateg 16
Structured Analysis/Design LSA f 33
Technical Support Task Report fo 26
Logistics Planning
Design Knowledge Management Syst 28
DOD Electronic Data Interchange 5
Management of Risk and Uncertain 37
Logistics Support
Achieving a System Operational A 8, 17
Air Force Tech Order Management 40
Annual CALS Supplier Forum (2nd) 17
Automated Logistics Support Anal 18
Best Value Acquisition Symposium 2
Briefing to Address Liveware Int 2
CALS (Computer-Aided Acquisition 35
CALS Architecture Study. Report 18
CALS Baseline Architecture Analy 35
CALS Database Usage and Analysis 19
CALS EXPO '88. 'Quality and Prod 40
CALS Industry Steering Group (IS 19
Collection of Technical Studies 40
Computer Aided Logistics Support 44
Computer-Aided Acquisition And L 35
Computer-Aided Acquisition and L 9, 35
Concurrent Engineering Technical 20
Cost Considerations of an Integr 36
Data Exchange Strategy. Part 1. 36
Data Management Standards in Com 28
Defense Logistics Agency Compute 36
DLA Preprovisioning Prototype - 41
DSMC (Defense Systems Management 41
Electronic Commerce and Competit 22
Electronic Delivery of Automated 36
Framework for Concurrent Enginee 22
Graphics Standards in the Comput 29
How CALS Can Improve the DOD Wea ... 12
Improving Supply Management - Th 12
Instructional Systems Developmen 30
Integration of the Air Force Con 30
Introduction to MIDS. Materials 44
LSA Task. Subtask 301.2.1. 'Oper 44
Military Handbook - Computer-Aid 30
National Institute of Standards 37
Navy CALS Vision. Draft 2.0. Vol 30
Navy/Marine Corps Manager's Desk 7
NIST Support for the Computer-Ai 24
OSD CALS Architecture Master Pla 37
Potential Improvements in the Lo 24
Preliminary CALS Phase II Archit 38
Presentations at CALS Conference 38
Presentations at the Keynote Ses 24
Proceedings of CALS EXPO '89. 'C 38
Proceedings of the Advance Plann 15
Proposed Draft Military Specific 32
RAMCAD (General Dynamics, San Di 15
Raster Data Transfer Test Using 32
Relationship Between Computer-Ai 39
Reliability Centered Maintenance 25
Repair Level Analysis Software 25
Report of the Joint Industry - D 46, 47
Report to the Committees on Appr 45
Structured Analysis - Review of 33
Structured Analysis and Structur 25
Structured Analysis and structur 39
Structured Analysis for the Logi 39
Structured Analysis of the Logis 43
Structured Analysis/Design LSA f 33
Structured LSA Task 301. Functio 43
Technical Publication Transfer t 34
Training Systems for Maintenance 34
United States Air Force Computer 43, 44
LSA (Logistic Support Analysis) Tasks
Structured Analysis and Structur 33
LSAR
LSAR Seminar. MIL-STD-1388-2B 37

M

Machine Parts
Integration of rapid prototyping 6
Machining
Development Plan - Step Producti 28
IGES Data Exchange Between Dissi 48
Library of Material Removal Shap 13
Parser That Converts a Boundary 38
Maintainability
Applications of Concurrent Engin 34
Computer Support for Conducting 27
Integration of R and M into the 42
Technology for Manpower, Personn 8
Maintenance
Draft Military Specification - M 21, 22
Joint DoD/Industry Study on Oppo 30
Reliability Centered Maintenance 25
Structured Analysis of the Logis 42
Maintenance Management
Computer Simulation Analysis of 20
Computer Support for Conducting 27
Repair Level Analysis Software 25
Structured Analysis of the Logis 43
Man Computer Interface
Integrated Information Support S 30
Introduction to Graphical User I 13
Military Specification. Manuals, ... 14
Man Machine Systems
Control System Software, Simulat 21
Management
Challenges in Product Definition 40
Department of Energy/contractor 36
Development Plan - Configuration 28
Gateway to Total Participation - 12
Industrial Insights on the DoD C 41
Proceedings of the 'Managing the 32
Management Engineering
Enabling Technologies for Unifie 22
Innovative Life Cycle Management 23
Management Information Systems
Architectural Guidelines for Mul 18
Aviation Diagnostics and Mainten 18
CALS-Contractor Integrated Techn 19
Cost Considerations of an Integr 36
Department of the Air Force CALS 21
Design Knowledge Management Syst 10
Development of an Electronic Dat 48
DOD Electronic Data Interchange 5
DSMC (Defense Systems Management 41
DTD Creation for the Software Te 29
Framework for Concurrent Enginee 22
Greater Buyer Effectiveness thro 37
Information Logistics - A Produc 23
Information Resources Management 41
Integrated Information Support S 30
Management of Risk and Uncertain 37
Meta-Design. An Approach to the 30
Navy CALS Vision. Draft 2.0. Vol 30
Premieres Conclusions d'UN Group 24
Presentations at CALS Conference 38
Relationship Between CALS and Co 32
Relationship Between Computer-Ai 39
Report of the Joint Industry - D 46, 47
Text Standard Generalized Markup 46
United States Air Force Computer 43
Using Electronic Data Interchang 8
Management Methods
Information Logistics - A Produc 23
Management Planning and Control
Concurrent Engineering - A New P 20
DARPA Initiative in Concurrent E 27
Decision Support Environment for 21
Design for Producibility. A Desi 28
Quality Philosophy for Integrate 25
Quality Process Approach to Elec 7
Use of Information and Manufactu 17
Manipulators
Evaluation of Automated Decision 45
Manpower
Survey of CALS Manpower and Pers 25
Technology for Manpower, Personn 8
Manuals
Lockheed Aeronautical Systems Co 42
Manufacturing
Concurrent Engineering for Compo 20
Description of CE Technology for 10
Design for Producibility. A Desi 28
Development Plan - Product Data 28
Development Plan - Step Producti 28
Developments in Agile Manufactur 3
Enabling Technologies for Unifie 22
Final NBS (National Bureau of St 44
Functional Requirements and Meas 12
Gateway to Total Participation - 12
Impact of IPAD (Integrated Progr 47
Lessons Learned for Composite St 23
Manufacturing Standards. (Latest 13
QDES User's Guide. National PDES 32
Quality Process Approach to Elec 7
RAMP Product Data Translation Sy 15
Rapid Acquisition of Manufacturi 15
Spacecraft Fabrication and Test 16
Manufacturing Optimization Systems
Operational Concept Document for 14
Marine Engineering
Annual Technical Symposium (28th 18
Marine Terminals
Development of an Electronic Dat 48
Marine Transportation
Automated Carrier Interface Proj 46
Potential Military Application o 32
Marketing
Empirical Study of Logistics Org 5
Information Logistics - A Produc 23
Markup Requirements
Military Specification - Markup 30
Mathematical Models
Data Model Development for Conte 28
Geometry Model, Version 1A for t 36
Geometry Model Version 1B for th 36
Integrated Document, Version 2 f 37
Product Structure Configuration 32
Test Report for Context Driven I 34
Topology Model Version 1A for th 39
Mechanical Components
Software and Design Document for 16
Mechanical Devices
Conceptual Architecture for a Me 20
Development Plan - Application P 21
Mechanical Systems
Applications of Concurrent Engin 34
Meetings
Annual CALS Supplier Forum (2nd) 17
Annual Technical Symposium (28th 18
CALS EXPO '88. 'Quality and Prod 40
CALS EXPO '89. 'CALS Impact - A 35
CALS Expo' 92 (5th). 'Catalyst f 8
CALS Industry Steering Group (IS 19
CALS-CE Industry Steering Group 9
CALS/CE Government and Industry 2
CALS/CE Industry Steering Group 9
Composites - Materials of the Fu 9
Joint CALS-CE Industry-Governmen 23
LSAR Seminar. MIL-STD-1388-2B 37
Proceedings of CALS EXPO '89. 'C 38
Proceedings of the Advance Plann 15
Proceedings of the Annual Academ 32
Proceedings of the AP Validation 7
Proceedings of the 'Managing the 32
Textiles and Composites '92. Sym 17
Workshop on Security Procedures 8
Mesh Generation
Primitive Decomposition and the 45
Message Handling Systems
Data Communication Networks Mess 21
Telegraph and Mobile Services. M 26
Message Processing
Electronic Data Interchange in M 22
Metal Sheets
Test Plan for Validating a Conte 26
Metals
Composites - Materials of the Fu 9
Microcircuits
Initial Graphics Exchange Specif 6
Neutral Format for HMA Manufactu 30
Military Air Facilities
Post-Dam System. Volume 2. Post- 15
Military Communications
Raster data transfer test using 32
Military Engineering
Post-Dam System. Volume 2. Post- 15
Military Equipment
CALS Test Network MIL-D-28000 Cl 27
Engineering drawing transfer tes 29, 36
Military Facilities
CALS Test Network Sacramento Air 9
Navy Acquisition Streamlining Co 44
Technical Publication Transfer t 34
Military Modernization
Technical Support Task Report fo 26
Military Procurement
Computer-Aided Acquisition and L 9
Concurrent Engineering - A New P 20
Defense Logistics Agency Compute 36
DLA Preprovisioning Prototype - 41

DOD Electronic Commerce (EC)/Ele 3
Electronic Data Interchange Oppo 11
Greater Buyer Effectiveness thro 37
How CALS Can Improve the DOD Wea ... 12
Navy CALS Vision. Draft 2.0. Vol 30
Paperless Procurement - The Impa 14
Preliminary CALS Phase II Archit 38
Presentations at the Institute f 38
Proceedings of the Advance Plann 15
Release and Installation Notes f 16
Role of Concurrent Engineering i 42
Military Publications
Text Standard Generalized Markup 46
Military Requirements
Military Specification - Digital 13, 23
Military Specification - Markup 23, 30
Military Specification - Raster 14
Military Standard - Automated In 14
Program Manager - Journal of the 25
Report on the Raster Capabilitie 16
Military Research
DARPA Concurrent Design/Concurre 41
Military Specifications
Military Specification - Digital 13
Military Standard 1388-2B
Integration of the Air Force Con 30
LSAR Seminar. MIL-STD-1388-2B 37
Military Supplies
PDES Application Protocol Suite 24
Military Transportation
Doing Business with DOD Using El 5
Doing Business with DoD Using El 5
Electronic Data Interchange in D 44
Electronic Exchange of Transport 46
Electronic Future for Defense Tr 41
Mobile Communication Systems
Iridium (Tm) System - Personal C 6
Models
Achieving a System Operational A 8, 17
CALS EXPO '92 - IDEF Modeling. A 8
Feature Modelling and Conversion 12
Results of the Work of the Inter 25
STEP - Standard for the Exchange 25
Test Plan for Validating a Conte 26
Validating STEP Application Mode 26
MODELS Project
Modernization of Defense Logisti 23
Monitoring
Using Electronic Data Interchang 8
MRSEVs (Material Removal Shape Element Volume
Library of Material Removal Shap 13

N

NASA Programs
NASA Procurement - Planning for 7
National Defense
DOD Electronic Data Interchange 5
National Government
Information Resources Management 23
National Institute of Standards and Technolo
Development Plan - Configuration 28
National PDES Testbed Strategic 30
NIST EXPRESS Toolkit - Introduct 7
Strategic Plan for the Factory A 8
NATO
NIAG Report on the Applicability 24
Naval Procurement
Electronic Data Interchange in U 11
Navy/Marine Corps Manager's Desk 7
Software and Design Document for 16
Naval Training
Computer-Based Instructional Tec 10
Navy Acquisition Streamlining Co 44
Needs Analysis
PDES Application Protocol Suite 24
Network Analysis (Management)
Assessment of DoD and Industry N 43
Engineering Information System 11
Newspapers
Distributed Publishing of Electr 21
NGD (Next Generation Documents)
Next Generation Documents 14
NIST (National Institute of Standards and Tec
NIST Support of the CALS Program 24
North Atlantic Treaty Organization (NATO)
NATO Industry Advisory Group Rep 14
NTIPS (Navy Technical Information Processing
Electronic Delivery of Automated 36
Nuclear Weapons
Developments in Agile Manufactur 3
DOE (Department of Energy) Data 44
Product Definition Initiative in 42

O

Object Oriented Design
Object-Oriented Design and Imple 7
Software Design Specification fo 16
Object-Oriented Programming
IDEF4 Object-Oriented Design Met 12
ODA (Office Document Architecture)
Interchangeability of SGML and O 13
Raster Graphics - A Tutorial and 7
On Line Systems
Implementation of OLTRS within D 23
STEP On-Line Information Service 25
Open Architecture
Open Architecture for Electronic 24
Operational Effectiveness
Greater Buyer Effectiveness thro 37
Technical Publication Transfer T 26, 33
Operational Readiness
OSD CALS Architecture Master Pla 37
Optimization
Concurrent Engineering in Design 20
DARPA DICE Manufacturing Optimiz 3
Functional Requirements and Meas 12
Orders (Commitments)
Text Standard Generalized Markup 46

P

Paper Work
Report to the Committees on Appr 45
Paperless Communications
Doing Business with DOD Using El 5
Parallel Processing
Assessment of the ModSim/TWOS pa 18
Heterogeneous SuperConcurrent Pa 6
Parallel Processors
Design of Parallel Systems for S 3
Object-Oriented Design and Imple 7
Parasolid Software System
Extracting STEP Geometry and Top 22
Parsers
Difficulties in Parsing SGML 41
DREAM 2.0. User Manual 11
Integrated Information Support S 30
NIST Working Form for STEP - Nat 31
NIST Working Form for STEP. Nati 31
Parser That Converts a Boundary 38
Reference Implementation for SGM 44
PAS-C (Protocol Suite for Composites)
PDES Application Protocol Suite 24
Pattern Recognition
Feature Modelling and Conversion 11
Payment Systems
Maximization of Automatic Paymen 23
PDD (Product Definition Data)
Product Definition Data System C 38
Production Definition Data Autom 32
PDES
Considerations for the Developme 36
Data Model and Test Criteria Dev 36
New 'Testbed' will Aid CAD/CAM, ... 37
Product Data Exchange - The PDES 38
Product Data Exchange Specificat 42
Role of the National Institute o 39
PDES (Product Data Exchange Specification)
Fed-X - The NIST Express Transla 29
NIST Express Working Form Progra 31
NIST PDES Toolkit - Technical Fu 31
NIST STEP Working Form Programme 31
NIST Working Form for STEP - Nat 31
QDES User's Guide. National PDES 32
Status of PDES-Related Activitie 33
PDES (Product Data Exchange Using STEP)
Architecture for the Validation 18
IGES/PDES Organization Document 23
National PDES Testbed Mail Serve 24
NIST EXPRESS Toolkit - Lessons L 14
NIST PDES Toolkit - Technical Fu 14
NIST Step Working Form Programme 31
PDES Application Protocol Suite 15
Status Report for First Quarter, ... 16
Validation Testing System - Reus 17

PDES/STEP
Status Report for Second Quarter 16
Transformr - A Prototype STEP Ex 17
PDES/STEP (Product Data Exchange Using STEP)
PDES Application Protocol Suite 24
Performance Evaluation
IGES Efficiency Evaluation 29
Performance Testing
Technical publication transfer t..... 34
Personnel
CALS Mailing List (for Microcomp 8
Design Evaluation for Personnel,..... 28
Gateway to Total Participation - 12
Personnel Development
Survey of CALS Manpower and Pers 25
Piping Systems
3D Piping IGES Application Proto 8, 26
Planning
Structured Analysis of the Logis 42
Planning Programming Budgeting
Air Force CALS Business Practice 1
Polymers
Composites - Materials of the Fu 9
Postattack Operations
Post-Dam System. Volume 2. Post- 15
Power Generation
Prefeasibility study on compress 24
PQDR (Product Quality Deficiency Report)
Using Electronic Data Interchang 8
Pretty Print
Expp - An EXPRESS Pretty Printer 6
Printed Circuit Boards
Computer-Aided Design for Built- 35, 36
Printed Circuits
IGES Electrical Test - CADCAM-03 44
Printers (Data processing)
Expp - An EXPRESS Pretty Printer 6
Problem Resolution
Structured Analysis and Structur 33
Process Control (Industry)
Fuzzy Simulation in Concurrent E 12
Ramp Technology and Intelligent..... 15
Process Engineering
Improving Procurement through Pr..... 12
Processing
SGML Lessons Learned for the Sof 33
Procurement
Electronic Commerce and Competit 22
Improving Procurement through Pr..... 12
Quality Process Approach to Elec 7
Procurement Management
NASA Procurement - Planning for 7
Product Data
Product Definition Data Standard 45
Product Data Exchange
Development Plan - Configuration 28
Development Plan - Product Data 28
Development Plan - Step Producti 28
Fed-X - The NIST Express Transla 29
National Initiative for Product 23
National PDES Testbed Strategic 30
NIST PDES Toolkit - Technical Fu 31
NIST SQL Database Loader - STEP 31
NIST Step Class Library (Step in 31
NIST Working Form for STEP - Nat 31
Overview of the Product Data Hyp 31
Product Data Exchange Baseline A 15
Questions and Answers You May Ha 15
Product Data Exchange Specifications
Context Model for the Context Dr 27
Data Model Development and Valid 28
Data Model Development for Conte 28
Data Model for the PDES, Inc., C 28
Data Model for the PDES, Inc. Co 28
Fed-X - The NIST Express Transla 29
National PDES Testbed Strategic 30
NIST Express Working Form Progra 31
PDES (Production Data Exchange S 31
Planning Model for Unifying Info 31
Product Data Exchange Specificat 25
Test Report for Context Driven I 34
Product Data Exchange Standards
Overview of the IGES/PDES Testin 38
Product Data HyperStandard CD ROM
Overview of the Product Data Hyp 31
Product Definition Data
Product Definition Data Standard 45
Product Development
Changing Nature of Design 9
CIM - It All Starts with Product 45
Configuration Management of the 20
Context Model for the Context Dr 27
Data Model and Test Criteria Dev 36
Data Model Development and Valid 28
Data Model Development for Conte 28
Data Model for the PDES, Inc., C 28
Data Model for the PDES, Inc. Co 28
Draft Handbook of Concurrent Eng 11
First Principles of Concurrent E 22
Geometry Model, Version 1A for t 36
Geometry Model Version 1B for th 36
Government/Contractor Developmen 6
Integrated Document, Version 2 f 37
Multi-Enterprise Concurrent Engi 23
PDES (Product data Exchange Stan 45
Product Data Exchange Specificat 42
Product Definition Data System C 38
Product Shape Interface Model fo 38
Product Structure Configuration 32
Production Definition Data Autom 32
Proposed Integration Framework f..... 32
Proposed Testing Methodology for 25
Questions and Answers You May Ha 15
Requirements and Recommendations 16
Role of the National Institute o..... 39
STEP Development Methods - Speci 16
Test Report for Context Driven I 34
Tolerance Model Version 2 for th 34
Topology Model Version 1A for th 39
Product Information
Technologiemodellierung fuer die..... 17
Product Inspection
Requirements and Recommendations 16
Production
Production and Logistics Strateg 38
Production Engineering
CIRP International Workshop on C..... 9
DARPA Concurrent Design/Concurre 41
DARPA Initiative in Concurrent E 27
First Principles of Concurrent E 22
Government/Contractor Developmen 6
Quality Philosophy for Integrate..... 25
Unified Life Cycle Engineering 26
Production Models
Use of GMAP (Geometric Modeling 39
Production Planning
L'Ingenierie Concourante (Concur 23
Ramp Technology and Intelligent..... 15
Products Profile
Product Data Exchange Standard 46
Programming Languages
DTD Creation for the Software Te 29
Expp - An EXPRESS Pretty Printer 6
Standard Generalized Markup Lang 47
Tinkertoy (Trade Name) Transactio 8
Programming Manuals
Expp - An EXPRESS Pretty Printer 6
NIST STEP Working Form Programme 31
Project Management
Concurrent Engineering 20
Development Plan - Configuration 28
NIST Support of the CALS Program 24
Project Planning
National Initiative for Product 23
Production and Logistics Strateg 38
Projects
Product Data Exchange Baseline A 15
Propulsion System Configurations
Concurrent Engineering 20
Propulsion System Performance
Concurrent Engineering 20
Protective Clothing
Proceedings of the Annual Academ 32
Protocol (Computers)
Application Protocol for CAD to..... 1
Protocols
3D Piping IGES Application Proto 8
Development Plan - Application P 21
Proposed Testing Methodology for 25
Prototypes
Changing Nature of Design 9
DLA Preprovisioning Prototype - 41
Integration of rapid prototyping 6
Object-Oriented Design and Imple..... 7
STEP Production Cell Technical D..... 33
Publishing
CALS-Markup Requirements and Gen..... 1, 2, 19
Distributed Publishing of Electr 21
Publishing Standard Allows for t 38

Q

Quality
Initiative in Concurrent Enginee 30
Presentations at the Institute f 38
Quality Assurance
Draft Military Specification - M 22
Military Specification. Quality 14
Quality Control
Annotated Reading List for Concu 34
Concurrent Engineering Teams. Vo 27
Decision Support Environment for 21
Premieres Conclusions d'UN Group 24
Quality Philosophy for Integrate 25
Query Languages
Entwurf Eines Modells der Verarb 11

R

RAMP (Rapid Acquisition of Manufactured Parts
RAMP Product Data Translation Sy 15
Rapid Acquisition of Manufacturi 15
Release and Installation Notes f 16
Rapid Acquisition of Manufactured Parts
Report on Standards and Specific 47
Raster Graphics
Military Specification - Raster 14
Raster Graphics - A Tutorial and 7
Raster Graphics Validation 16
Report on the Raster Capabilitie 16
Rasters
Tiled Raster Graphics and MIL-R- 26
RCAS
Technical Assessment of the Rese 17
RCM (Reliability Centered Maintenance)
Reliability Centered Maintenance 25
Recursive Filters
Concurrent Architectures for VLS 3
Regulations
Expp - An EXPRESS Pretty Printer 6
Relational Data Bases
IGES/RIM Parser & Converter 46
IGES/RIM Parser/Converter Users 46
Reliability
Applications of Concurrent Engin 34
Integration of R and M into the 42
Reliability Centered Maintenance 25
Technology for Manpower, Personn 8
Reliability (Electronics)
Quality Process Approach to Elec 7
Requirements
CALS-Contractor Integrated Techn ... 1, 2, 9, 19
Military Specification. Data Bas 14
Military Specification. Manuals, ... 14
Military Specification. Quality 14
Presentations at CALS Conference 42
Research
Textiles and Composites '92. Sym 17
Research and Development
Concurrent Engineering 20
Technical Program of the Factory 17
Research Projects
NBS (National Bureau of Standard 44, 45
Resources Management
Information Resources Management 23
Risk
Automated Logistics Support Anal 18
Robotics
Control System Software, Simulat 21
Evaluation of Automated Decision 45
Robots
Interpretation of CAD (Computer 37
Rule Based Systems
Concurrency Control in Rule-Base 10

S

Sandia Laboratories
Making IGES Work for CAD/CAM Dat 46
Satellite Communication
Iridium (Tm) System - Personal C 6
Satellite Networks
Iridium (Tm) System - Personal C 6
Satellite Transmission
Iridium (Tm) System - Personal C 6
Satellites
Spacecraft fabrication and test 16
SBTG (Small Business Task Group)
Computer-Aided Acquisition and L 35
Scientific Personnel
Text encoding for retrieving sci 26
Sectoral Analysis
Industry Sector Analysis, Canada 6
Industry Sector Analysis, Hong K 6
Security
CALS Database Usage and Analysis 19
SGML
Difficulties in Parsing SGML 41
Reference Implementation for SGM 44
SGML (Standard Generalized Markup Language)
Interchangeability of SGML and O 13
Military Specification - Markup 23
Processing SGML Documents 32
Qwertz SGML Document Types. Vers 25
SGML DTD for the STEP Integrated 7
Standard Generalized Markup Lang ... 25, 33
Shape
Product Shape Interface Model fo 38
Shipping
DOD Electronic Data Interchange 5
Electronic Data Interchange Prot 11
Ships
Annual Technical Symposium (28th 18
Shops
Ramp Technology and Intelligent 15
Signal Processing
Design of Parallel Systems for S 3
Simulation
Multimedia Electronic Mail - Sta 14
Slides
SGML Tables for the PHIGS Slide 8
Small Businesses
Computer-Aided Acquisition and L 35
Forging a Partnership Through ED 12
Software
COMPRS 46
IGES/RIM Parser & Converter 46
PDES 46
Reference Implementation for SGM 44
SPLPKG 47
Software Engineering
CIM - It All Starts with Product 45
Collection of Technical Studies 40
DARPA DICE Manufacturing Optimiz 3
Design Knowledge Management Syst 10
IDEF4 Object-Oriented Design Met 12
MCM/Chip Concurrent Engineering 13
NASA-IGES Geometry Data Exchange 14
NIST Step Working Form Programme 31
Software and Design Document for 16
Software Design Specification fo 16
Software Product Data (SPD) Curr 33
Software-First Life Cycle Final 33
Unified Life Cycle Engineering 26
United States Air Force Computer 43
Software Libraries
NIST Step Class Library (Step in 31
Software Tools
Computer Graphics Metafile (CGM) 45
Data Probe User's Guide. Nationa 3
Fed-X - The NIST Express Transla 12
Information Resource Dictionary 41
Introduction to the NIST PDES To 30
NIST EXPRESS Toolkit - Introduct 7
NIST EXPRESS Toolkit - Lessons L 14
NIST Express Working Form Progra ... 14, 31
NIST PDES Toolkit - Technical Fu 14, 31
Shtolo-Converting STEP Short Lis 8
Survey of CALS Manpower and Pers 25
Survey of Training Development S 26
Transfonnr - A Prototype STEP Ex 17
TRW CALS COTS Product Guide, Sec 17
Software (Computers)
Industry Sector Analysis, Hong K 6
Solids
Extracting STEP Geometry and Top 22
SOTA (State Of The Art)
PDES Application Protocol Suite 24
Space Station Freedom
Advanced Life Support Study. Mod 1
Space Vehicles
Recent results from the Spacecra 7
Spacecraft fabrication and test 16
Spacecraft Design
Advanced Life Support Study. Mod 1
Spacecraft Propulsion
Concurrent Engineering 20
Specialized Training
Navy Acquisition Streamlining Co 44
Specifications
CALS-Automated Interchange of Te 1, 2, 19
Content Data Model - Technical S 27
Draft Military Specification - M 21

Military Specification - Digital 13, 23
Military Specification - Markup 23, 30
Military Specification - Raster 14
Military Specification. Data Bas 14
Military Specification. Digital 14
Military Specification. Manuals, ... 14
Military Specification. Quality 14
National Institute of Standards 37
VMS Uses PDES to Integrate CAD/C 34
Spline Functions
Analysis of Three-Dimensional Sp 46
Wilson-Fowler Spline in a Global 44
SQL Database Language
Database Language SQL - Integrat 10
SQL3 Database Language
SQL3 Support for CALS Applicatio 25
Standardization
CAD/CAM product data standards, ... 27
Data Model and Test Criteria Dev 36
NASA-IGES Geometry Data Exchange 14
Neutral Format for HMA Manufactu 30
New 'Testbed' will Aid CAD/CAM, ... 37
Open Architecture for Electronic 24
Open Document Processing and the 24
Overview of the Product Data Hyp 31
Product Data Exchange - The PDES 38
Product Data Exchange Specificat 42
Report on Scoping the Apparel Ma 7
Results of the Work of the Inter 25
Standard Generalized Markup Lang 42
Transforming Cross-Industry Prac 26
Validation Testing Laboratory Us 26
Standards
CALS (Computer-Aided Acquisition 35
CALS Standards Overview 19
CALS Test Network Handbook, July 19
CALS Test Network MIL-D-28000 Cl 27
CALS Test Network Strategic Plan 35
CALS-Automated Interchange of Te 1, 2, 19
Collection of Technical Studies 20
Comparison of ISO 10303 Part 47 9
Computer Graphics Standards. (La 3
Computer-Aided Acquisition and L 10
Conceptual Architecture for a Me 20
Concurrent Engineering through P 20
Configuration Management of the 20
Data Management Standards in Com 28
Data Object Classification - A N 10
Development Plan - Product Data 28
Development Plan - Step Producti 28
Digital Representation for Commu 28
Dimensional Inspection Planning 3
Documentation Preparation Under 41
DOD Electronic Data Interchange 4, 5
DoD Electronic Data Interchange 5
DoD's Technical Information Publ 21
Draft Military Specification - M 21
EDI's Role in a Strategy for Dig 29
Emerging Hypermedia Standards - 22
Engineering Drawing Transfer Tes 36
Exchange Standards for Electroni 41
Extending the Standard for the E 29
Government Document Processing R 22
Graphics Application Programmer' 37
Graphics Standards in the Comput 29
Guide for Specifying and Buildin 12
Guidelines for the Specification 37
Incorporating CALS Requirements 12
Information Resources Management 41
Initial Graphics Exchange Specif 13, 44
Interchangeability of SGML and O 13
Introduction to the NIST PDES To 30
Lockheed Aeronautical Systems Co 42
LSAR Seminar. MIL-STD-1388-2B 37
Manufacturing Standards. (Latest 13
Military Standard - Automated In 14
Military Standards for CITIS - P 14
Multi-Enterprise Concurrent Engi 23
Multimedia Electronic Mail - Sta 14
National Institute of Standards 37
National PDES Testbed Strategic 30
New Video Describes CALS Program 31
Next Generation Documents 14
NIST Express Working Form Progra 31
NIST PDES Toolkit - Technical Fu 31
NIST SQL Database Loader - STEP 31
NIST Step Class Library (Step in 31
NIST STEP Working Form Programme 31
NIST Support for the Computer-Ai 24
NIST Working Form for STEP - Nat 31
PDES 46
Position of Sandia National Labo 38
Procedures Manual for Testing CG 15
Product Data Exchange Specificat 25
Product Data Exchange Standard 46
Product Definition Data Standard 45
Proposed Integration Framework f 32
Proposed Testing Methodology for 25
QDES User's Guide. National PDES 32
Raster Data Transfer Test Using 32
Raster Graphics - A Tutorial and 7
Raster Graphics Validation 16
Requirements and Recommendations 16
Sample Tailoring of 2167A DIDS f 32
Second Generation Computer Graph 39
SGML DTD for the STEP Integrated 7
Status of PDES-Related Activitie 33
STEP - Standard for the Exchange 25
STEP Development Methods - Speci 16
STEP Production Cell Technical D 33
Technical Program of the Factory 17
Technical Publication Transfer T .. 26, 33, 34
Technical Publication Transfer t 34
Transmission of Technical Inform 39
U.S. GOSIP - The Challenge Ahead 34
Use of GKS (Graphical Kernal Sys 39
Use of STEP in an Integrated Man 17
Use of the IRDS Standard in CALS 40
STEP (Standard for the Exchange of Product Model Data)
Apparel STEP Translator 18
Architecture for the Validation 18
Comparison of ISO 10303 Part 47 9
Conceptual Architecture for a Me 20
Configuration Management Concept 20
Configuration Management of the 20
Considerations for the Transform 10
Data Probe User's Guide. Nationa 3
Development Plan - Application P 21
Development Plan - Product Data 28
Development Plan - STEP Conforma 21
Development Plan - Step Producti 28
Development Plan Validation Test 28
Expp - An EXPRESS Pretty Printer 6
Extending the Standard for the E 29
Extracting STEP Geometry and Top 22
National PDES Testbed Strategic 30
NIST SQL Database Loader - STEP 31
NIST Step Class Library (Step in 31
NIST STEP Working Form Programme 31
NIST Working Form for STEP. Nati 31
PDES Application Protocol Suite 24
Product Data Exchange Specificat 25
Proposed Testing Methodology for 25
QDES User's Guide. National PDES 32
Requirements and Recommendations 16
SGML DTD for the STEP Integrated 7
Shtolo-Converting STEP Short Lis 8
Status of PDES-Related Activitie 33
Status Report for First Quarter, ... 16
STEP - Standard for the Exchange 25
STEP Development Methods - Speci 16
User's Guide for the Apparel STE 17
Validating STEP Application Mode 26
Validation Testing System - Reus 17
Stockpile Management
Potential Military Application o 32
Strategy
Ils, Ce, Cals du Concept a la Mi 23
National PDES Testbed Strategic 30
Streamlining
Navy Acquisition Streamlining Co 44
Structural Analysis
Integration of Design, Thermal, ... 6
Structural Components
Enabling Technologies for Unifie 22
Structural Design
Concurrent Engineering in Design 20
Structural Engineering
Concurrent Engineering in Design 20
Structured Analysis
Structured Analysis of the Logis 43
Structured LSA Task 301. Functio 43
Structured Design
Structured Analysis and Structur 33
Structured Programming
Engineering Data Integration - P 29
Subject Indexing
OSD CALS Architecture Master Pla 37
Subroutines
Interactive Interface for Nation 13
Supply Depots
Achieving a System Operational A 8, 17
Promoting Freight Carrier EDI Pa 7
Supply Management
Improving Supply Management - Th 12

Index

Sweep Generators
Raster Graphics Conformance Test 25
Symposia
Best Value Acquisition Symposium 2
Electronic Transfer of Informati 29
Perspectives, Key Themes, and Re 42
Systems Analysis
Automated Logistics Support Anal 18
Content Data Model (CDM) and Imp 36
Repair Level Analysis Software 25
Software-First Life Cycle Final 33
Structured Analysis for the Logi 39
Structured Analysis of the Logis 43
Systems Engineering
Advanced Materials Aspects of Co 17
Catalog of Training and Educatio 35
CIM - It All Starts with Product 45
Concurrent Engineering - A New P 20
Concurrent Engineering Teams. Vo 27
Considerations for the Developme 36
Decision Support Environment for 21
Design Knowledge Management Syst 10
Design of Parallel Systems for S 3
Examination of Various Methods U 29
L'Ingenierie Concourante (Concur 23
Management of Risk and Uncertain 37
Meta-Design. An Approach to the 30
Research and Development Strateg 16
Structured Analysis and Structur 25
Structured LSA Task 301. Functio 43
Systems Design Analysis Applied 8
United States Air Force Computer 43
Systems Management
Examination of Various Methods U 29
Systems Simulation
Computational Simulation for Con 2

T

Task Forces
Report of the Joint Industry - D 46, 47
Teaching Methods
U.S. Joint Service Systems Appro 34
Technical Assessment
Technical Assessment of the Rese 17
Technical Information
CALS Information Technology Brie 2
Transmission of Technical Inform 39
Technical Information Centers
CALS Baseline Architecture Analy 35
CALS Infrastructure Analysis. Dr 27
OSD CALS Architecture Master Pla 37
Technical Manuals
Using Object-Oriented Databases 17
Technical Orders
Benefit Analysis Report, United 35
Technical Writing
SGML Encoding for Technical Repor 16
Technology Assessment
United States Air Force Computer 43
Technology Forecasting
Presentations at CALS Conference 38
Technology Transfer
Technical Publication Transfer T 26, 33
Technology Utilization
Information Technology Vision fo 13
Telecommunications
Data Communication Networks Mess 21
Data Format Standardization with 3
Information Resources Management 23
Telegraph and Mobile Services. M 26
Telephones
Iridium (Tm) System - Personal C 6
Temperature Effects
Integration of Design, Thermal, ... 6
Test Beds
National PDES Testbed Strategic 30
STEP Production Cell Technical D 33
Test Equipment
Computer-Aided Design for Built- 35, 36
Test Facilities
Use of GMAP (Geometric Modeling 39
Testing
CALS Test Network MIL-D-28000 Cl 27
Lockheed Aeronautical Systems Co 42
Procedures Manual for Testing CG 15
Simulation-Based Approach to Tes 16
Tests
Architecture for the Validation 18
CALS Test Network Handbook, July 19
CALS Testing - Programs, Status 9
Computer-Aided Acquisition and L 10
NIST CGM Information Pack for Te 24
Overview of the IGES/PDES Testin 38
PDES (Production Data Exchange S 31
Proposed Testing Methodology for 25
Raster Graphics Conformance Test 25
Raster Graphics Validation 16
Requirements and Recommendations 16
Status Report for Second Quarter 16
Technical Publication Transfer T .. 26, 33, 34
Test Report for Context Driven I 34
Validation Testing System - Reus 17
Text Editors
Standard Generalized Markup Lang 47
Text Processing
Collection of Technical Studies 27
Computer Graphics Metafile (CGM) 3
SGML in Practice - The PHIGS Sli 16
SGML Tables for the PHIGS Slide 8
Standard Generalized Markup Lang 42
Textile Industry
Information Technology Vision fo 13
Textiles
Textiles and Composites '92. Sym 17
Texts
Entwurf Eines Modells der Verarb 11
Thermal Analysis
Integration of Design, Thermal, ... 6
Three Dimensional Display Systems
Computer Graphics Metafile (CGM) 2, 35
Three Dimensional Models
Context Model for the Context Dr 27
Extracting STEP Geometry and Top 22
TIP (Technical Information Publishing)
DoD's Technical Information Publ 21
Tolerances (Mechanics)
Tolerance Model Version 2 for th 34
Topology
Topology Model Version 1A for th 39
Total Quality Management
Initiative in Concurrent Enginee 30
Quality Process Approach to Elec 7
Systems Design Analysis Applied 8
Trade
Electronic Commerce User Manual 11
Trade Off Analysis
Structured Analysis of the Logis 43
Technology for Manpower, Personn 8
Traffic
Electronic Commerce Strategy for 11
Training
CALS - The Time is Now. CALS EXP 27
CALS Training Criteria Formulate 27
Computer-Aided Acquisition and L 9
Report of the first annual airbo 32
Survey of Training Development S 26
Training Management
U.S. Joint Service Systems Appro 34
Transactions
Tinkertoy (Trade Name) Transactio 8
TRANSFORM (Training Systems for Maintenance)
Training Systems for Maintenance 34
Transition
Draft Report on Backfitting Prog 22
Translators
Comparison of SDF (Standard Data 45
Extracting STEP Geometry and Top 22
Fed-X - The NIST Express Transla 29
Guide to EDI Translation Softwar 22
IGES (Initial Graphics Exchange 46
IGES 4.0 to LCAD Translator for 6
Transportation
Electronic Commerce Strategy for 11
Transportation Systems
Department of Energy/contractor 36

U

ULCE (Unified Life Cycle Engineering)
Enabling Technologies for Unifie 22
United States
Information Resources Management 23
NIAG Report on the Applicability 24
US DOD
Electronic Commerce User Manual 11
Lockheed Aeronautical Systems Co 42
US NBS Automated Manufacturing Research Faci
Converting the AMRF Part Model R 40
User Manuals
Achieving a System Operational A 8
Automated Logistics Support Anal 18

V

Validation
Development Plan Validation Test 28
Validation Testing System
Development Plan Validation Test 28
Value Engineering
Research and Development Strateg 16
Vendors
Guide to EDI Translation Softwar 22
Verification
Symbolic Model Checking. An Appr 17
Very Large Scale Integration
Submicron Systems Architecture P 33
Voltage Generators
New Video Describes CALS Program 31
Voltmeters
New Video Describes CALS Program 31
VTS (Validation Testing System)
Validating STEP Application Mode 26

W

Weapon System Effectiveness
U.S. Joint Service Systems Appro 34
Weapon Systems
Achieving a System Operational A 17
Applications of Concurrent Engin 34
Automated Assembly Center (AAC) 1
Baseline Architecture Analysis o 34, 35
CALS Architecture Study. Report 18
CALS EXPO '88. 'Quality and Prod 40
CALS EXPO '89. 'CALS Impact - A 35
CALS-Department of Defense Acqui 19
CALS-Department of Defense Compu 19
CALS-HSC Data Element Dictionary 9
Computer Aided Logistics Support 44
Computer-Aided Acquisition and L 35, 40
Concurrent Engineering - A New P 20
Content Data Model 3
Data Management Standards in Com 28
Design Evaluation for Personnel, ... 28
Draft Military Specification - M 21, 22
Effects on Weapon Systems' Produ 5
Efficient Approach to Systems Ev 5
Electronic Delivery of Automated 36
Enabling Technologies for Unifie 22
Final NBS (National Bureau of St 44
How CALS Can Improve the DOD Wea ... 12
Incentives and Funding Mechanism 30
Integration of the Air Force Con 30
Introduction to MIDS. Materials 44
Military Handbook - Computer-Aid 30
Military Standard - Automated In 14
National Institute of Standards 37
OSD CALS Architecture Master Pla 37
Premieres Conclusions d'UN Group 24
Presentations at CALS Conference 38
Proceedings of CALS EXPO '89. 'C 38
Product Definition Data (PDD) Cu 38
Production and Logistics Strateg 38
Relationship Between CALS and Co 32
Repair Level Analysis Software 25
Report of the Joint Industry - D 47
Report on Standards and Specific 47
Report to the Committees on Appr 45
Role of Concurrent Engineering i 42
United States Air Force Computer 43
Weapons
CIM (Computer-Integrated Manufac 45
DOE (Department of Energy) Data 44
Report of the First Annual Airbo 32
Weapons System
CALS-Department of Defense Compu 1, 2
Wilson-Fowler Spline
Wilson-Fowler Spline in a Global 44
Windowing Techniques
QDES Administrative Guide - Nati 32
Workload
Paperless Material Inspection an 24
Workshops
CIRP International Workshop on C 9
DARPA Concurrent Design/Concurre 41
Presentations at the Institute f 38
Workstations
National Technical Report, Vol. 30

X

X12EDI Transaction Set 841
Transmission of Technical Inform 39

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7. CDJ										
8. CDJ										

†NTIS will label each item with up to eight characters of your organization's routing code.

Prices are subject to change.
The NTIS Sales Desk (703) 487-4650 can provide pricing verification.

PR-OFA 7/94
All previous versions of this order form are obsolete.

Value of Order	Handling Fee
$10.00 or less	$2.00
$10.01 – $50.00	$4.00
$50.01 – $100.00	$6.00
Over $100.00	$8.00
Add $2.00 to above for orders sent outside of the U.S., Canada, and Mexico.	

SUBTOTAL from other side	
Total	
Handling Fee *per order* (see chart at left)	
Payment not included. Please bill me, add $7.50 (Available for U.S., Canada, and Mexico only)	
GRAND TOTAL	

☐ **OVER**—Order continued on reverse

Order Selection (cont.)

Please PRINT or TYPE

Enter NTIS order numbers (Ordering by title alone will delay your order)	Customer Routing† optional (up to 8 digits)	Unit Price	Quantity: Paper Copy	Quantity: Micro-fiche	Quantity: Other	Specify density for tape orders: 1600 bpi	6250 bpi	3480 cartridge	Internat'l Air Mail (see below)	TOTAL PRICE
9. CDJ										
10. CDJ										
11. CDJ										
12. CDJ										
13. CDJ										
14. CDJ										
15. CDJ										
16. CDJ										
17. CDJ										
18. CDJ										
19. CDJ										
20. CDJ										
									Subtotal	

†NTIS will label each item with up to eight characters of your organization's routing code.

ENTER on the other side.

FREE Catalogs & Information

Call (703) 487-4650 and ask for any of the following free titles or check the appropriate box below.

- ❑ **PR-827 – NTIS Products & Services Catalog**
- ❑ PR-186 – Published Search® Master Catalog
- ❑ PR-261 – Directory of U.S. Government Software for Mainframes and Microcomputers
- ❑ PR-629 – Directory of U.S. Government Datafiles for Mainframes and Microcomputers
- ❑ PR-746 – Directory of Federal Laboratory & Technology Resources
- ❑ PR-758 – Environmental Datafiles & Software Catalog
- ❑ PR-797 – NTIS Alerts–(formerly Abstract Newsletters) customized current awareness bulletins
- ❑ PR-868 – Environmental Highlights (catalog of reports on the environment)
- ❑ PR-888 – CD-ROMs & Optical Discs Available From NTIS
- ❑ PR-936 – FedWorld® — Free Access to the Electronic Marketplace of U.S. and Foreign Government Information

International Shipping

Paper copy reports and microfiche copies are shipped surface mail unless Air Mail is requested.

Air Mail Fees

Canada and Mexico add $4 per paper copy report;
$1 per microfiche copy.

Other countries add $8 per paper copy report;
$1.25 per microfiche copy.

Computer products are shipped by air courier as part of the regular handling fee.

For a copy of the latest NTIS price code conversion table, call (703) 487-4650 and ask for PR-360–3 for prices in the U.S., Canada and Mexico. Ask for PR-360-4 for the conversion table for prices for all other countries.

After the original stock of a technical report is exhausted, NTIS reprints directly from the master archive copy. These printed-to-order copies are the best possible reproductions.

For more order forms, call (703) 487-4650 and ask for PR-OFA.

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NTIS Price Schedules

NTIS generally uses price codes to indicate the cost of items sold. The following schedules convert these codes into actual prices.

For Customers *in* the U.S., Canada, and Mexico

Standard Prices "A" Codes

Price Code	Price
*A01	$6.00
*A02	9.00
A03	17.50
A04 thru A05	19.50
A06 thru A09	27.00
A10 thru A13	36.50
A14 thru A17	44.50
A18 thru A21	52.00
A22 thru A25	61.00
A99	*Contact NTIS for price*

"N" Codes

Price Code	Price
N01	$65
N02	59
N03	20

*A01 for microfiche is $9.00
A02 for microfiche is $12.50

Exception Prices "E" Codes

Price Code	Price
E01	$12.50
E02	15.50
E03	17.50
E04	20.50
E05	22.50
E06	25.50
E07	28.50
E08	32.00
E09	35.00
E10	38.00
E11	41.00
E12	45.00
E13	48.00
E14	52.00
E15	56.00
E16	62.00
E17	67.00
E18	72.00
E19	80.00
E20	92.00
E99	*Contact NTIS for price*

Microcomputer Diskettes "D" Codes

Price Code	Price
D01	$55
D02	90
D03	140
D04	195
D05	250
D06	300
D07	360
D08	410
D09	460
D10	520
D11	570
D12	630
D13	680
D14	740
D15	790
D16	840
D17	890
D18	950
D19	1,000
D99	*Contact NTIS for price*

Magnetic Tape "T" Codes

Price Code	Price
T01	$180
T02	240
T03	360
T04	480
T05	590
T06	710
T07	820
T08	940
T09	1,050
T10	1,160
T11	1,270
T12	1,390
T13	1,500
T14	1,620
T15	1,740
T16	1,850
T17	1,960
T18	2,080
T19	2,190
T99	*Contact NTIS for price*

For Customers *outside* the U.S., Canada, and Mexico

Standard Prices "A" Codes

Price Code	Price
*A01	$12
*A02	18
A03	35
A04 thru A05	39
A06 thru A09	54
A10 thru A13	73
A14 thru A17	89
A18 thru A21	104
A22 thru A25	122
A99	*Contact NTIS for price*

"N" Codes

Price Code	Price
N01	$85
N02	75
N03	40

*A01 for microfiche is $18.00
A02 for microfiche is $25.00

Exception Prices "E" Codes

Price Code	Price
E01	$25
E02	31
E03	35
E04	41
E05	45
E06	51
E07	57
E08	64
E09	70
E10	76
E11	82
E12	90
E13	96
E14	104
E15	112
E16	124
E17	134
E18	144
E19	160
E20	184
E99	*Contact NTIS for price*

Microcomputer Diskettes "D" Codes

Price Code	Price
D01	$110
D02	180
D03	280
D04	390
D05	500
D06	600
D07	720
D08	820
D09	920
D10	1,040
D11	1,140
D12	1,260
D13	1,360
D14	1,480
D15	1,580
D16	1,680
D17	1,780
D18	1,900
D19	2,000
D99	*Contact NTIS for price*

Magnetic Tape "T" Codes

Price Code	Price
T01	$360
T02	480
T03	720
T04	960
T05	1,180
T06	1,420
T07	1,640
T08	1,880
T09	2,100
T10	2,320
T11	2,540
T12	2,780
T13	3,000
T14	3,240
T15	3,480
T16	3,700
T17	3,920
T18	4,160
T19	4,380
T99	*Contact NTIS for price*

Prices are subject to change

Effective 7/1/94

U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Technical Information Service
Springfield, VA 22161 (703) 487-4650

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A000023039704

PR-958
10/94

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